


RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES  
**REPORT OF PROPERTY AND WELL TRANSFER**

Field or county      Cat Canyon, Paris Valley & San Ardo		District: Coastal District -Orcutt	
Former owner Vintage Production California LLC		Opcode: V1370	Date      3/25/16
Name and location of well(s)			
<p><b><u>See Attached list of wells</u></b></p>			
Date of transfer, sale, assignment, conveyance, or exchange <b>12 - 1 -2014</b>	New Owner California Resources Production Corporation	Operator code C0885	Type of Organization Corporation
	Address 11117 River Run Boulevard Bakersfield, CA 93311		Telephone No. (661) 412-5000
Reported by Vintage Production California LLC			
Confirmed by California Resources Production Corporation			
New operator new status PI	Request Designation of Agent Robert J. Bordenave, Jr		
Old operator new status AB	Remarks		
		District Deputy Patricia A. Abel	Signature 

**OPERATOR STATUS ABBREVIATIONS**

**FORM AND RECORD CHECK LIST**

PA - Producing Active	Form or record	Initials	Date	Form or record	Initials	Date
NPA - No Potential Active				Map and Book		
PI - Potential Inactive	Form OGD121			Lease Files		
NPI - No Potential Inactive	Well records	AR	3/25/16	Well Stat		
Ab - Abandoned or No More Wells	New well cards			District Computer Files	AR	4-5-16
PA:ar	Bond Status	AR	3/25/16			3/25/16
cc: Vintage Production California LLC						
Santa Barbara County						

Conservation Committee  
Transfer File  
Carvern James- HQ  
Well Files (257)

NATURAL RESOURCES AGENCY  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES  
(805) 937-7246

MAP NO.	MAP LETTER	BOND NO.	114	121
				08-11 08

## REPORT OF WELL ABANDONMENT

Richard Oringderff, Agent  
Vintage Production California LLC  
9600 Ming Avenue, Suite 300  
Bakersfield, CA 93311

Santa Maria, California  
August 23, 2011

Your report of abandonment of well "**Bradley**" 4 A.P.I. No. **083-21852**, Section **23**, T. **9N**, R. **33W**,

**S.B. B&M, Cat Canyon** field, **Santa Barbara** County, dated \_\_\_\_\_ received **01-12-11**, has been examined in conjunction with records filed in this office.

We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and the filing of well records.

- NOTES:**
1. Surface plugging completed on **10-15-10**.
  2. Site inspection made on **12-01-10**.
  3. Issuance of the Report of Well Abandonment does not relieve the operator from satisfying all requirements set forth in Section 1776 of the California Code of Regulations, **Title 14, Division 2, Chapter 4**.

Jl:cb

cc: Chrono  
Conservation Committee  
Santa Barbara County Petroleum  
Update  
Well File

ELENA M. MILLER, State Oil and Gas Supervisor

By   
Patricia A. Abel, District Deputy

## DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES CHECK LIST - RECORDS RECEIVED AND WELL STATUS

COMPANY Vintage Production California LLC WELL NO "Bradley" 4  
API NO. 083-21852 SEC. 23, T. 9N, R. 33W, S.B. B.&M.  
COUNTY Santa Barbara FIELD Cat Canyon

**DATE**[illegible]

## Clerical Check List

Form OGD121  
 \_\_\_\_\_ Location change (OG165)  
 \_\_\_\_\_ Elevation change (GD165)  
 ✓ \_\_\_\_\_ Final Letter (OG159) 8-23-11  
 \_\_\_\_\_ Release of Bond (OGD150)  
 \_\_\_\_\_ Abd \_\_\_\_\_ in WSS  
 \_\_\_\_\_ Notice of Records Due (OGD170)  
 \_\_\_\_\_ Request:

✓ Scan Records 8-25-11

## STATUS

~~7/10~~ - WD p1A

(Date)

## Engineer's Check List

☒ Summary, History, & Core Record  
☐ Directional Survey  
☐ Logs  
☒ Operator's Name  
☒ Signature  
☐ Well Designation  
☐ Location  
☐ GPS Location Received  
☐ Entered in Computer  
☒ Notice  
☒ "T" Reports  
☒ Casing Record  
☒ Plugs (Sfc. Plg Date) 10/15/10  
☒ Final Sfc. Insp Date 12/01/10  
☒ Production/Injection

Computer

✓ 121 Status Change  
 Drlg Table-TD  
 (F: Annual Rept/Yr/Prelim Drlg Stat)  
 Redrill & Deepen Depths  
 (F: Annual Rept/Yr/Prelim Drlg Stat)  
 ✓ Idle Well Status Change  
 (F: Idle/Idle Wells 2000/Idle Wells Master  
 ✓ WSS Code or Status Changes

✓ Map Work: PJA on 10/25/10

- Follow Up:

~ Hold for:

Records Approved 08/23/11 JI

**RECEIVED**

JAN 12 2011

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCESDIVISION OF OIL, GAS AND  
GEOTHERMAL RESOURCES**HISTORY OF OIL OR GAS WELL**

MAP NO.	MAP LETTER	BOND NO.	114	121
				01-11 ch

Operator Vintage Production California, LLC Field CAT CANYON County SANTA BARBARA  
 Well BRADLEY 4 Sec. 23 T. 9N R. 33W SB B.&M.  
 A.P.I. No. 04-083-21852 Name Deborah Young Title Regulatory Associate, Sr.  
(Person submitting report) (President, Secretary, or Agent)  
 Date \_\_\_\_\_  
(Month, day, year)

Signature

Address 9600 Ming Avenue, Bakersfield, CA 93311Telephone Number (661) 869-8000

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

**ABANDONMENT HISTORY**

8/29/2010

Went over new JSA with crew. Move in and rig up and guy out. Nipple down wellhead. Strip on BOPE and build floor. Release packer. Pull 20 stds slow. Secure well for the weekend. On Monday cont. out of hole and run scraper.

8/30/2010

Held daily safety meeting and went over JSA with crew. Open well and pull out of hole tallying tbq. Packer stopped 30 feet from surface. Worked packer by pulling small strain and turning. Packer was coming up hole slowly. Threads parted on packer at cross over collar, packer is stuck in wellhead. Rig out floor and nipple down BOPE to look at and measure fishing neck. Nipple up BOPE and build floor. Secure well for the night. In the morning we will have overshot on location to retrieve packer. There was 3 hours T & M on this well today.

8/31/2010

Held daily safety meeting with crew and went over JSA. Make up fishing tools and latch onto fish. Push fish down 5 feet and work back up, unable to pull through wellhead. Unlatch from fish and lay down overshot. Make up scraper and push fish down hole. Fish stopped at 3890'. Pull out of hole and lay down scraper. Secure well for the night. In the morning going to make up tapered mill and dress well head.

9/1/2010

Held daily safety meeting and went over JSA with crew. Pick up 1 4 3/4" collar and make up tapered mill. Pick up and make up power swivel. Mill on wellhead for 30 minuetes, remove BOPE and inspect. We repeated this 4 separate times to ensure mill was not compromising casing. Rig out power swivel and lay down mill and drill collar. Secure well for the night. In the morning plan on picking up overshot and run tbq to fish.

9/2/2010

Held daily safety meeting and went over JSA with crew. Pick up overshot and run in hole, unable to get past 3315' that is 575' above fish. Pull out of hole with tbq and overshot. Secure well for the night. In the morning plan on running overshot and try to circulate down to fish.

9/3/2010

Held daily safety meeting and went over JSA with crew. Run in hole with overshot and strip on circulating head. Circulate from 3315' to fish at 3890'. Latch onto paker and attempt to pull. Packer would not move. Tried rotating and shearing packer. Release over shot and pull 26 stands. Secure well for the weekend. On Tuesday plan on cleaning out to fish and pulling tbq.

9/7/2010

Held daily safety meeting and went over JSA with crew. Run in hole and tag fill at 3870'. Circulate to

Page 1 of 3



## HISTORY OF OIL OR GAS WELL

fish at 3890' and roll hole over. Pull out of hole with overshot. Pick up jars and collars with overshot and run in hole to fish. Latch on to fish and jar free. Moved fish up hole hanging up several times. Pullout of hole slowly with 65 stds. Secure well for the night. In morning plan on pulling out the rest of the way and looking at overshot.

9/8/2010

Held daily safety meeting and went over JSA with crew. Pull collars and lay down fish. Run collars and tools, pull out of hole laying down collars and tools. Run in hole and tag sand at 3890'. Clean out from 3890' to 4517'. DOGGR did not need to see tag. Pull 35 stds. Secure well for the night. In the morning plan on pulling out of hole and round tripping scrapper.

9/9/2010

Held daily safety meeting and went over JSA with crew. Pull out of hole with tbg. Pick up scrapper and run in hole to 4500'. Pull scrapper and lay down. Make up and run cement retainer at 4310'. Set retainer and attempt to get injection rate. Held 1500 psi with no injection rate. Sting out of retainer and pull 30 stds. Secure well for the night. In the morning plan on pumping cement.

9/10/2010

Held daily safety meeting and went over JSA with crew. Run in hole and tag sand at 4160'. Clean out to retainer, unable to re-enter cement retainer. Spot and rig up cement equipment to 2 7/8" tubing with tail at 4310'. Mix and pump 152 cubic feet of G with 35% silica flour in three stages bringing cement to 3145'. Wash up cement pump and move to next well. All operations witnessed and approved by Christi Kelly DOGGER. Pull 45 stands. Secure well for the weekend. On Monday plan on tagging cement and upgrading if needed.

9/12/2010

Move equipment on to location. Hold on site safety meeting and review JSP with crew. Spot and rig up cement equipment to 2 7/8" tubing with tail at 4310'. Mix and pump 152 cubic feet of G with 35% silica flour in three stages bringing cement to 3145'. Wash up cement pump and move to next well. All operations witnessed and approved by Christi Kelly DOGGER.

9/14/2010

Held daily safety meeting and went over JSA with crew. Run in hole with tbg. Pull out of hole laying down tbg. Rig out floor and nipple down BOPE. Nipple up wellhead. Rig down and clean location. In the morning plan on moving rig and equipment to U-CAL 118, this well will need bottom plu upgraded.

10/5/2010

Move in and rig up. Run in hole and tag cement at 3455'. Upgrade with 40 cubic feet of "G" 35% silica flour. Displace with 8 bbls of water. Pull out of hole and wash up. Rig down and move off. Move to UCAL-CAL 118.

10/7/2010

Went over new JSA with crew. Move in and rig up. Run in hole tag top of cement at 3227' upgrade. with 11 cubic feet "G" 35% silica flour displace tubing. pull out of hole wash up rig down move to United cal 118 witnessed by Ross Brunetti

10/12/2010

Held daily safety meeting and went over JSA with crew. Move in rig up, spot equipment. Run in hole and tag fill at 3146', tag waived by Jim Carnahan. Pull out of hole. Rig up wireline and shoot cavity shot at 3135' to 3125'. pull out of hole and rig down. Run in hole and spot 205 cubic feet of "G" 35% silica flour, pull out of hole and wash up. In the morning plan on tagging cement and up grading if

RESOURCES AGENCY OF CALIFORNIA  
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**HISTORY OF OIL OR GAS WELL**

necessary.

10/13/2010

Held daily safety meeting and went over JSA with crew. Run hole tag top of cement at 1934'. Call DOGGR wait tag and placement witnessed by Jeremiah Hill DOGGR mix and pump 47 cubic feet "G" 35% silica flour displace coiled tubing with 10.8 BBLS water pull out of hole to 1570' reverse with 20bbls water. Pull out of hole wash up rig down move off. TTOC 1570'+- Weststar moving tubing off location.

10/14/2010

Held daily safety meeting and went over JSA with crew. Move in rig up coiled tubing and cement equipment. Run hole tag top of cement at 1566' pull out of hole. Safety meeting JSA move in rig up wire line cavity shot 1550' to 1560' pull out of hole rig down move off wire line. Run in hole and tag at 1556', pump 91 cubic feet "G" 35% silica flour displace with 11 bbls of water and pull out of hole, fill well and down squeeze with 3 bbls of water. Close in psi at 125. Rig down move to Bradley 2

10/19/2010

Held daily safety meeting and went over JSA with crew. Spot equipment and rig coil tbq. Run in hole and tag cement at 1079' pump 160 cubic feet "G" 35% silica flour to surface. Witnessed by Ross Brunetti, ull out of hole and wash up. Rig down and moved to Bradley .

11/17/2010

Jon Ivenrson with the DOGGR witnessed fill. Name Plate with API and Well name attached.

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**Vintage Production California LLC**

**"Bradley" 4**

**083-21852**

**Final Surface Inspection**

**12/01/2010**

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NATURAL RESOURCES AGENCY  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. T 310-343

**REPORT ON OPERATIONS**

Richard Oringderff, Agent  
Vintage Production California LLC  
9600 Ming Ave., Suite 300  
Bakersfield, CA 93311

Santa Maria, California  
October 28 2010

Your operations at well "Bradley" 4, API No. 083-21852, Sec. 23 T. 9N, R. 33W,  
S.B. B.&M., Cat Canyon Field, in Santa Barbara County, were witnessed on 10-15-10,  
by R. Brunetti, representative of the supervisor.


The operations were performed for the purpose of **plugging and abandonment**.

Decision: **Approved**

RB:cb

cc: Santa Barbara County  
Well file

Elena M. Miller  
State Oil and Gas Supervisor

By   
Patricia A. Abel, Deputy Supervisor

T 310-343

## CEMENTING/PLUGGING MEMO

Operator Vintage Production California LLC Well No. "Bradley" 4  
 API No. 083-21852 Sec. 23 T. 9N R. 33W S.B. B&M  
 Field Cat Canyon, County Santa Barbara On 10/15/10  
 Mr. / Ms. R Brune, representative of the supervisor, was present from 1230 to 1320.

There were also present P. Mathews, Abandonment Supervisor

Casing record of well:

The operations were performed for the purpose of: (1) -

☒ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ \_\_\_\_\_ are approved.

Hole size: \_\_\_\_\_ " fr. \_\_\_\_\_ " to \_\_\_\_\_ " to \_\_\_\_\_ " & \_\_\_\_\_ " to \_\_\_\_\_ "

Casing				Cemented			Top of Fill		Squeezed Away	Final Pressure	Perforations
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			
4" WT 10" TAG				10/11/10	CTV	205 cf	UNK	1934.5'	47 cf	400 psi	3125'-3138'
				10/14	CT	91		1079'	3661	125 psi	CS 2" x 10'
									(5 1/2" calc)		1550-1560

Casing/tubing recovered: \_\_\_\_\_ " Shot/cut at \_\_\_\_\_ ' , \_\_\_\_\_ ' , \_\_\_\_\_ ' , Pulled fr. \_\_\_\_\_ ' ;  
 \_\_\_\_\_ " Shot/cut at \_\_\_\_\_ ' , \_\_\_\_\_ ' , \_\_\_\_\_ ' , Pulled fr. \_\_\_\_\_ ' .

Junk (in hole): \_\_\_\_\_

Hole fluid (bailed to) at \_\_\_\_\_ ' . Witnessed by \_\_\_\_\_

Mudding	Date	bbls	Displaced	Poured	Fill	Engineer

~15.7 Class G w/ 35% SF 40 4517' per T. Adams cem retainer @ 4310'

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engineer	Depth	Wt/Sample	Date & Time	Engineer
9-10-10	152 cf	Hog @ 4310'	1200	CKelly	4310'	rig tag	9-10-10 1000	CKelly
10-6-10	40 cf	CT @ 3453'	reported by P. Mathews		3453'	CTU tag	10-6-10 reported by P. Mathews	
10-7-10	10 cf	CT @ 3227'	1259	RB	3227'	CTU tag	10-7-10 1241	RB
10/13/10	37 cf	CT @ 1930'	1100	JH	1940'	CTU TAG	REPT P. MATHIEWS	
					1079'	CT Tag	10/15 1237	RB

10/15/10 160 CTG 1079 1316 RB Returns to surface 10-10-10 CP test 10g No break down below 4310  
 max 121' idle wells, wss 121' / see over retainer at 4310

10/14 JI tagged cement 1567'

CS 2" x 10' 1550-1560

pumped 91 CF pulled up, sqz 3 bbls at 125 #

CIP 1200 calc TOC 990 tagged 1079

Squeeze job on 10/11 205 CF perfs 3125-3135

CT 3140 squeezed 47 CF, calc TOC 1925' tagged 1935'

with JH

Vintage Bradley 4

date? Tagged @ 3453'

placed 40 CF cem

10/7/10 Tagged 3227'

1241 hrs

placed 10 CF cem CIP 1259 hrs

with RB



NATURAL RESOURCES AGENCY  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

No. P **310-157**

**PERMIT TO CONDUCT WELL OPERATIONS**

(Old) Field Code (New)

(Old) Area Code (New)

(Old) Pool Code (New)

Richard Oringderff, Agent  
Vintage Production California LLC  
9600 Ming Ave., Suite 300  
Bakersfield, CA 93311

Santa Maria, California  
June 25, 2010

Your proposal to abandon well "Bradley" 4, A.P.I. No. 083-21852, Section 23, T. 9N, R. 33W,  
S.B. B.&M., Cat Canyon Field, \_\_\_\_\_ Area, \_\_\_\_\_ Pool, Santa Barbara County,  
dated 6/3/10, received 6/17/10 has been examined in conjunction with records filed in this office.

**THE PROPOSAL IS APPROVED PROVIDED:**

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements: Class **II 2M**, with hydraulic controls, on the **5 1/2"** casing.
2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. Class "G" cement with a minimum of **35%** silica flour, or a Division approved equivalent, shall be used for zone plugs to prevent thermal decomposition in active steam zones or where steam injection is anticipated.
4. A diligent effort shall be made to clean out to **4560'**. *R3 / Tom / MMT cleanout 4517' ok*
5. Prior to shooting any perforations or cavity shots for bradenhead squeezes, a pressure test of the **5 1/2"** casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a retainer or packer is required for squeeze operations.
6. Sufficient cement shall be squeezed into the cavity shot at **3125'** to fill to **3025'** outside the **5 1/2"** casing, or until a pressure increase, not to exceed fracture pressure, is noted.
7. Sufficient cement shall be squeezed into the cavity shot at **1550'** to fill to **1450'** outside the **5 1/2"** casing, or until a pressure increase, not to exceed fracture pressure, is noted.
8. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of **72 lbs/cu. ft** and a minimum gel shear strength of **25 lbs./100 sq. ft**.
9. All annuli are filled with cement from at least **30'** to **5'**.
10. All casing must be removed from between **5'** and **10'** below ground level.
11. A steel plate, at least as thick as the outer well casing and bearing the last five digits of the API number, shall be tack welded around the top circumference of the outer casing.
12. The well location shall be surveyed prior to burying the well, and the survey shall be filed with this office, latitude and longitude in decimal degrees, to six decimal places, NAD 83.
13. Well site restoration shall be completed within 60 days following the completion of plugging operations.
14. No program changes are made without prior Division approval.
15. **THIS DIVISION SHALL BE NOTIFIED TO:**
  - a. **Witness** the cement squeeze through the **retainer** at **4400'**.
  - b. **Witness** the location and hardness of the cement plugs at **3145'** and at **1570'**.
  - c. **Witness** the placing of the cement plug from **1570'** to **0'**.

**CONTINUED ON PAGE 2**

Engineer: Ross Brunetti

Phone: (805) 937-7246

Elena M. Miller  
State Oil and Gas Supervisor

By Patricia A. Abel For  
Patricia A. Abel, Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work is completed or the operations have been suspended. Issuance of this permit does not preclude the recipient from the obligation of being in compliance with all applicable Federal, State and Local laws, regulations and ordinances.

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- d. **Witness** the location and hardness of cement at surface, including all annular spaces.
- e. **Inspect** the restored well site.

**NOTES:**

- 1. Heavy oil or other materials may hinder the bonding of cement plugs to the casing or hole. In such cases, additional cleanout operations may be required.
- 2. Zone isolation cement plugs shall use cement that has a minimum compressive strength of 1000 psi and a maximum liquid permeability of 0.1 md.
- 3. Unlined sumps containing harmful water are not to be located over freshwater bearing aquifers.
- 4. Hydrogen sulfide gas (H<sub>2</sub>S) is known to be present in this area and adequate safety precautions shall be taken prior to and during well operations.
- 5. Well plugging operations utilizing coiled tubing units are to be conducted in compliance with this Division's "Coiled Tubing Plugging Guidelines" dated November 24, 2004.

BLANKET BOND

RB:cb

cc: Santa Barbara County Petroleum  
Well File

P 310-157



NATURAL RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121
Blanket	06-10 ch	06-10 ch

OG

## NOTICE OF INTENTION TO ABANDON / RE-ABANDON WELL

Detailed instructions can be found at: [www.conservation.ca.gov/odg](http://www.conservation.ca.gov/odg)

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon ☒ / re-abandon ☐ well "Bradley" #4, API No. 04-083-21852

(Check one)

Sec. 23, T. 9N, R. 33W, SB B.&M., Cat Canyon Field, Santa Barbara County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)

8 5/8", 24#, K-55 Csg. cmt'd @ 504'.  
5 1/2", 17#, K-55 Csg cmt'd @ 4778', (TOC @ ± 3400' - CBL).  
5 1/2" Perf'd: 4646'-4694' w/ 8 spf  
Junk in Hole: Packer @ 4560'.  
Bad Casing: 4505'-4510' and 4555'-4560'.

The total depth is: 4778' feet.

The effective depth is: 4737' feet.

Present completion zone(s): Monterey

(Name)

Present zone pressure: ~500 psi.

Oil or gas shows: feet.

(Name and depth)

Depth to base of fresh water: 1560' feet.

Top of uppermost hydrocarbon zone (which may be behind unperforated casing): 3137' feet.

(Depth of interval)

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes ☐ No ☒

The proposed work is as follows: (A complete program is preferred and may be attached.)

See Attached.

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator Vintage Production California LLC		
Address 6851 McDivitt Drive, Suite D		City/State Bakersfield, Ca.
Name of Person Filing Notice Spencer Payne		Zip Code 93313
Telephone Number: 661-827-9144	Signature <i>Spencer Payne</i>	Date 06/03/10
Individual to contact for technical questions: Spencer Payne	Telephone Number: 661-827-9144	E-Mail Address: Spencer_Payne@oxy.com

This notice must be filed, and approval given, before plugging and abandonment operations begin. If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

OG108 (1/09)

# RECEIVED

## JUN 17 2010

DIVISION OF OIL, GAS AND  
GEOTHERMAL RESOURCES  
SANTA MARIA, CALIFORNIA

58

VINTAGE PRODUCTION CALIFORNIA, LLC.  
6851 McDivitt Drive, Suite D  
Bakersfield, CA. 93313

WELL INFORMATION

Well: "Bradley" #4  
API No.: 04-083-21852  
FIELD: Cat Canyon  
LOCATION: Sec. 23 - T9N - R33W SB B&M

DATE: 5/12/10  
Commenced Drilling: 9/23/83  
Completed Drilling: 10/3/83  
Ground Level: 777'  
Kelly Bushing: 787'  
All measurements from KB  
BFW @ 1560'  
Top Hydrocarbon @ 3132'

PRESENT WELLBORE CONFIGURATION:

CASINGS: 8 5/8", 24#, K-55 Csg. cmt'd @ 504'.  
5 1/2", 17#, K-55 Csg cmt'd @ 4778', (TOC @ ± 3400' - CBL).  
PERFORATIONS: 5 1/2" Perf'd: 4646'-4694' w/ 8 spf  
PLUGS: PBTD @ 4737'.  
Junk in Hole: Packer @ 4560'. Bad Casing: 4505'-4510' and 4555'-4560'.  
TUBING DETAIL: Unknown

PROPOSED PROGRAM

Note: Contact the DOGGR representative to witness all procedural steps required to be witnessed (ie: clean-out depth, cement plug placement and hardness, perforating, mudding operations, surface plug and site restoration). All cement slurries and abandonment mud will conform to DOGGR specifications.

1. Make lease inspection and determine if tubing and rods are present. If necessary, MIRU a production hoist. Bleed well off. Circulate and kill well as necessary. Pull and lay down rods and pump. Install a back pressure valve. Remove tree and install a DOGGR Class II (2M) BOP. Pull and lay down tubing. **Do not initiate any downhole work until DOGGR has inspected BOPE.**
2. RIH with open-ended tubing and make diligent effort to clean out to 4560'. **Notify DOGGR to witness clean-out depth.**
3. RIH with 5 1/2" Casing Scraper to ± 4500'. POOH. RIH with 5 1/2" Cement Retainer to ± 4400'. Sting into retainer and establish an injection rate.
4. Squeeze a sufficient volume of cement to fill 5 1/2" casing from retainer to 4694' plus 25% excess, (Calculated Volume + 25% excess: 50 cft.). Estimated BHST @ 4694' ± 145 °F. Unsting from retainer. Reverse hole clean with water. Pressure test casing to ± 500 psi. **Notify DOGGR to witness.**
5. RIH with open-ended tubing. Rig up cementers. Lay a cement (Class G Cmt + 35% Silica Flour + additives) plug from top of retainer @ ± 4400' - 3145', (Calculated Volume: 164 cft.). WOC. Estimated BHST @ 4400' ± 140 °F. **Notify DOGGR to witness.**
6. RIH and tag plug at 3145', re-cement if necessary. **Notify DOGGR to witness tag.**
7. Shoot a 10' Cavity Shot from 3135'-3125'.
8. RIH with open-ended tubing. Rig up cementers. Lay a cement (Class G Cmt + 35% Silica Flour + additives) plug from 3145' - 1570' (Calculated Volume: 206 cft.). WOC. Estimated BHST @ 3145' ± 125 °F. **Notify DOGGR to witness.**
9. RIH and tag plug at 1570', re-cement if necessary. **Notify DOGGR to witness tag.**
10. Shoot a 10' Cavity Shot from 1550'-1560'.
11. RIH with open-ended tubing. Rig up cementers. Lay a cement (Class G Cmt + 35% Silica Flour + additives) plug from 1570' to surface. (Calculated Volume + 10% excess: 225 cft.). WOC. Estimated BHST @ 1575' ± 110 °F. **Notify DOGGR to witness.**
12. Fill all uncemented annuli to a depth of at least 30' to 5' with cement. Dig outside the conductor casing 5' below ground level. Cut casings off 5' below ground level. Weld on a steel top plate with well identification. **Notify DOGGR to witness surface abandonment.**
13. Restore surface location to original grade.

57  
**RECEIVED**

**JUN 17 2010**

**DIVISION OF OIL, GAS AND  
GEOTHERMAL RESOURCES  
SANTA MARIA, CALIFORNIA**



Vintage Production California LLC

Well: "Bradley" #4  
Field: Cat Canyon  
1687' S & 2130' W from NE Corner of Section  
Sec. 23 - T9N - R33W SB B&M

Drawing Date: 5/12/10  
Commenced Drilling: 9/23/83  
Completed Drilling: 10/3/83

Present Wellbore Configuration

All measurements are from KB

GL - 777' - KB - 787'

API No. 04-083-21852

BFW @ 1560'

Top Hydrocarbon @ 3137'

8 5/8", 24#, K-55 Csg. cmt'd @ 504'

7 7/8" Dr'd Hole

CS 1550

978 x  
5 1/2" =  
0.17 cF / ft

cm to

CS 3125  
3145 ftm

TOC @ ± 3400' - CBL  
"good" cement ±

cm to 3145  
hole 3145'  
Retainer 4400' w/  
downsqueeze

Junk in Hole: Packer @ 4560'

Bad Casing: 4505'-4510' and 4555'-4560'

5 1/2" Perf'd 4646'-4694' w/ 8 spf

5 1/2", 17#, K-55 Csg cmt'd @ 4778'

TD @ 4778' - PBTD @ 4737' (TOC @ ± 3400' - CBL)

Drawing not to scale

Prepared by: Brad Frederick

56  
**RECEIVED**

JUN 17 2010

DIVISION OF OIL, GAS AND  
GEOTHERMAL RESOURCES  
SANTA MARIA, CALIFORNIA

NATURAL RESOURCES AGENCY  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES  
5075 So. Bradley Rd., Suite 221, Santa Maria, CA 93455  
(805) 937-7246

## REPORT OF CORRECTION OR CANCELLATION

Richard Oringderff, Agent  
Vintage Production California LLC  
9600 Ming Avenue, Suite 300  
Bakersfield, CA 93311

Santa Maria, California  
September 21, 2009

In accordance with a Division regulation, the following change pertaining to your well

**"Bradley" 4, API 083-21852, Santa Barbara** County, Sec. **23**, T. **9N**, R. **33W**, **S.B.**

B&M, is being made in our records:

\_\_\_ The corrected location is \_\_\_\_\_

\_\_\_ The corrected elevation is \_\_\_\_\_

\_\_\_ Report No. \_\_\_\_\_, dated \_\_\_\_\_, has been corrected as follows:

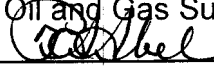
☒ Your **notice to plug and abandon** dated **07-30-08**, and our report No.P **308-314**,  
(Drill, abandon, etc.)  
issued in answer thereto, is hereby **cancelled** inasmuch as the work will not be done.

If you have an individual bond on file covering this notice, it will be returned.

No request for such return is necessary.

\_\_\_ Other: \_\_\_\_\_


cc: Cancellation  
Chrono  
Conservation Committee  
Santa Barbara County  
Update  
Well File✓  
Map Work

ELENA M. MILLER  
State Oil and Gas Supervisor  
By 

Patricia A. Abel, Deputy Supervisor



RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES  
**REPORT OF PROPERTY AND WELL TRANSFER**

Field or county      Cat Canyon Field		District: 3 - SANTA MARIA	
Former owner      Greka Oil & Gas, Inc.		Opcode: G3520	Date      January 28, 2009
Name and location of well(s)			
<p><u>Sec. 23 T. 9N, R. 33W S.B. B&amp;M</u> "Bradley" Lease</p> <p><u>Sec. 14 T. 9N, R. 33W S.B. B&amp;M</u> "California" Lease &amp; "United California"</p>			
Description of the land upon which the well(s) is (are) located Cat Canyon Field, "Bradley", "California" and "United California" Leases, Santa Barbara County, CA			
Date of transfer, sale, assignment, conveyance, or exchange 1-1-2009	New Owner Vintage Production California LLC	Operator code V1370	Type of Organization LLC
	Address 9600 Ming Avenue, Suite 300 Bakersfield, CA 93311		Telephone No. (661) 869-8000
Reported by Greka Oil & Gas, Inc.			
Confirmed by Vintage Production California LLC			
New operator new status PA	Request Designation of Agent		
Old operator new status PA	Remarks All wells whether inactive, shut in, idle, abandoned, or unknown, including but not limited to the wells listed on. Exhibit "A" attached hereto, located on the following leases listed above.		
Deputy Supervisor Patricia A. Abel		Signature 	

**OPERATOR STATUS ABBREVIATIONS**

PA - Producing Active	FORM AND RECORD CHECK LIST					
NPA - No Potential Active	Form or record	Initials	Date	Form or record	Initials	Date
PI - Potential Inactive	Form OGD121			Map and Book		
NPI - No Potential Inactive	Well records			Lease Files		
Ab - Abandoned or No More Wells	New well cards			Well Stat		
PAA:cb	Bond Status			District Computer Files		
cc: Greka Oil & Gas, Inc.						
Vintage Production Calif. LLC						

Santa Barbara County  
Cons. Committee      Transfer File  
Harold Bertholf      Carmen Myers

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND  
GEOTHERMAL RESOURCES

No. P 308-314  
Field Code  
Area Code  
New Pool Code  
Old Pool Code


PERMIT TO CONDUCT WELL OPERATIONS  
WATER DISPOSAL PROJECT  
SISQUOC AREA  
THOMAS ZONE

Susan M. Whalen, Agent  
Greka Oil & Gas, Inc.  
Regulatory Department  
6527 Dominion Road  
Santa Maria, CA 93454

Santa Maria, California  
August 13, 2008

Your proposal to plug and abandon well "Bradley" 4, A.P.I. No. 083-21852,  
Section 23, T. 9N, R. 33W, S.B. B&M, Cat Canyon field,            area,            pool,  
Santa Barbara County, dated 07-30-08, received 07-30-08, has been examined in conjunction with  
records filed in this office.

Our records indicate that the top of cement outside the 5 1/2" casing is at 3400'±, and that the 5 1/2"  
casing is bad from 4505' - 4510'.

 **CANCELLED** 9-21-09

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
2. Blowout prevention equipment conforming to Class II 2M requirements is installed and maintained in operating condition at all times.
3. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 70 lbs./cu ft. and a minimum gel-shear strength (10 min.) of 25 lbs./100 sq. ft.
4. The bottom plug extends to 4405'.
5. Perforations or a cavity shot is made at 2130' and squeezed with at least 17 cu. ft. of cement, in addition to leaving 100 lineal feet of cement inside casing above the perforations or cavity shot.
6. Freshwater deposits are protected by squeeze-cementing through perforations or a cavity shot at 1610 feet with at least 17 cu. ft. of cement. In addition, cement fill inside the casing must be to at least 100 feet above the perforations or cavity shot.
7. THIS DIVISION IS NOTIFIED:
  - a. If the junk packer cannot be recovered from the well. Further requirements will be outlined at that time.
  - b. To witness the location and hardness of the cement plugs at 4405', 3030' and at 1510'.

Engineer Pat Abel  
Phone (805) 937-7246

HAL BOPP, State Oil and Gas Supervisor

By Pat Abel

Acting Deputy Supervisor RB

CONTINUED ON NEXT PAGE

- c. To witness the mudding of the well.
- d. To witness the squeeze-cementing of the 5 1/2" casing through the perforations at 3130' and 1610'.
- e. To witness the placing of the surface plug or to verify its location.
- f. To inspect and approve the cleanup of the well site before approval of abandonment will be issued. Well site restoration must be completed within 60 days following plugging and abandonment of the well.

NOTES:

1. Prior to mudding and cementing the hole, heavy oil or other materials that may hinder the bonding of cement plugs to the casing or hole walls must be removed.
2. This Division does not recommend the use of unlined sumps for the purpose of drilling, recompletion or abandonment operations.
3. Prior to shooting any perforations or cavity shot, a pressure test of the 5 1/2" casing shall be made to ensure integrity for any bradenhead squeeze. If casing integrity is not demonstrated, a retainer or packer will be required for the squeezing of cement.
4. Please provide this office with a GPS location or surveyed well location in UTM, NAD 27 prior to burial.
5. Hydrogen sulfide gas is known to be present in this area. Adequate safety precautions must be taken prior to commencing operations; refer to CDOGGR Manual M10.
6. In the event there are any blowouts, fires, serious accidents, or any significant gas or water leaks, promptly notify this Division.



CANCELLED 9-21-09

Blanket Bond  
PA:cb

*Cancelled*

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

RECEIVED

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121
Blanket	7-08 pd	7-08 S

OIL GAS & GEOTHERMAL  
SANTA MARIA, CALIFORNIA

Notice of Intention to Abandon Well

File in Duplicate

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon

Well Bradley 4 API No. 08321852 Sec. 23 T. 9N R33W SB B.&M.

Cat Canyon Field

Santa Barbara

County, starting work on

The present condition of the well is

1. Total depth: 4778 ETD 4737

2. Complete casing record, with plugs and perforations (present hole):  
8 5/8 24# 0 - 504'

5 1/2 17# 0 - 4778 4 - 1/2" SPF 4646' - 4694' 12% gel cement

Packer Fish @ 4560"

Bad

TOC / ETD  
- 4405

Additional data for dry hole (show depths)

1. Oil or gas shows:

2. Stratigraphic markers:

~~SB 3200~~ S.B. 3137

Thomas 4646'

Monterey 4693

3. Formation and age at total depth:  
Thomas

4. Base of freshwater sands: 1560' ✓

3. Date last produced or injected: 7-85

 CANCELLED

Is this a critical well according to the definition on the reverse side of this form (or on page 2 if you are using the Internet)?

☐ Yes ☒ No

The proposed work is as follows:

1. MIRU workover rig, un-set packer, strip on BOPE. Install work platform. POOH w/tbg. lay down packer. Attempt to fish or mill over fish packer. If successful, clean out to ETD. Lay down tbg. RDMO
- 1a. If unable to remove Packer Fish @ 4560" will notify DOGGR before proceeding. ✓
2. MIRU Coil unit, pump, cement trucks and associated equipment.
3. Open well, RIH and tag bottom.
4. Mix and pump calculated volume of cement across perfs and 100' above. Wait 2 hours tag TOC. - 4405
5. Fill Casing w/fresh water if needed and pressure to 500# to test casing against bottom plug. If test good proceed with step 6. If casing does not test, see steps 11 -13.
6. At 10' off bottom plug, change over to mud by mixing and pumping calculated volume to meet DOGGR weight and specs.
7. Set tbg. 50' below BFW, Mix and pump calculated volume of cement across BFW. Plug to be 100' across this interval (50' below and 50' above BFW). Wait 2 hours tag plug. SQUEEZE @ S.B. AND R.E.L.
8. Set tbg. 100' from surface, mix and pump calculated volume cement for surface plug. Plug to be 100' down from surface to surface.
9. RDMO Coil unit and equipment.
10. Cut casing surface pipe 5' below gradient, fill annulus w/cement. Weld cap on casing. Back fill and level location, remove flowlines, concrete, debris ect.
11. In the event casing does not pass pressure test, M/U and run wireline conveyed cavity shot or 4 hole gun perfs.
12. Set and shoot off at 50' below BFW.
13. Mix and pump calculated volume of cement, down squeeze. WOC. Tag and verify 50' + above BFW. Continue with program as stated.

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Address 6527 Dominion Rd.  
(Street)

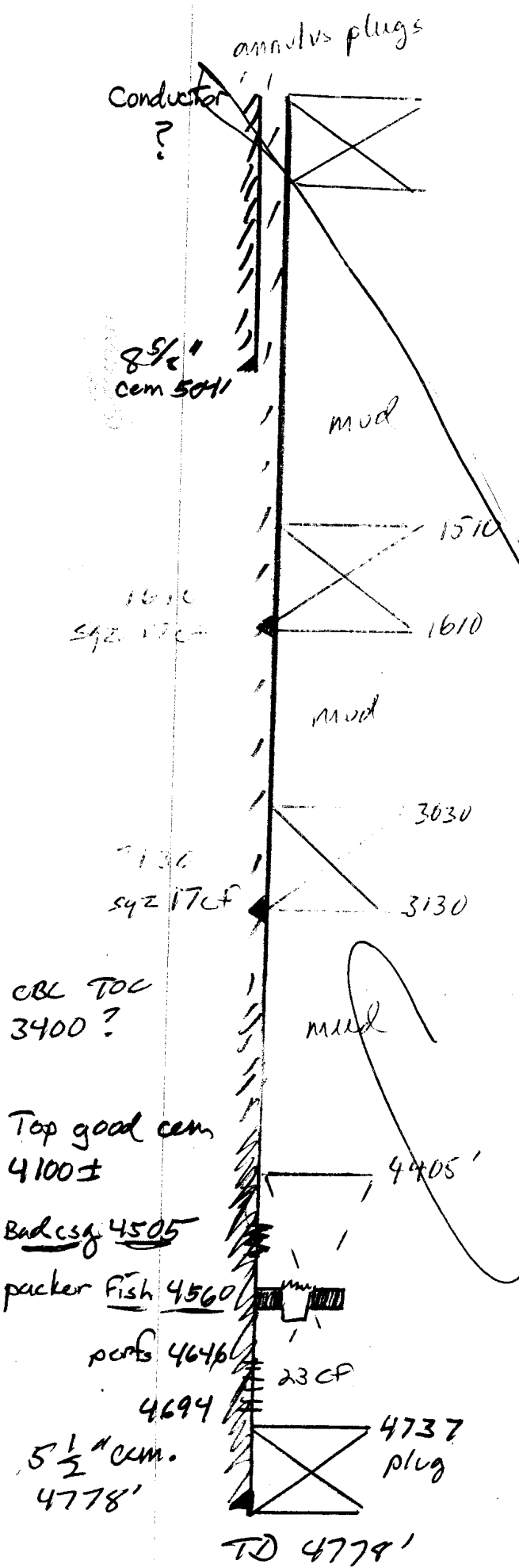
Santa Maria Ca. 93454  
(City) (State) (Zip)

Telephone Number 805 347-8700  
(Area Code) (Number)

Greka Oil & Gas  
(Name of Operator)

By Cliff Davis  
(Print Name)

Cliff Davis 7-30-08  
(Signature) (Date)



Greka  
 "Bradley" 4  
 083-21825  
 Sec 23, T9N-R33W  
 Drilled 1988

- BFW 1580

CANCELLED 9-21-09

- SIB 3137

*Cancelled*

1. IF packer recovered, place cem. from cleanout to 4405.
- 2 IF not, squeeze 23 CF below junk
- Thomas 4646
- Monterey 4693

Conductor  
?  
8 5/8"  
cem 5041

Greka  
"Bradley" 4  
083-21825  
Sec 23, T9N-R33W  
Drilled 1983

- BFW 1560



CANCELLED

9-21-09

- S16 3137

CBL TOC  
3400?

Top good cem  
4100±

Bad csq 4505

packer Fish 4560

perf 4646

4694

5 1/2" cem.  
4778'

4737  
plug

TD 4778'

- Thomas 4646

- Monterey 4693

*Cancelled*



# IDLE WELL MONITORING RECORD

WELL NAME "Bradley" 4 WELL TYPE WD  
 BFW 11000 I  
1560

[illegible]

REMARKS:

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES  
**REPORT OF PROPERTY AND WELL TRANSFER**

Field or county <u>Cat Canyon</u>		District <u>3 - SANTA MARIA</u>	
Former owner <u>Vintage Petroleum, Inc.</u>		Opcode: <u>V1350</u>	Date <u>August 27, 2002</u>
Name and location of well(s)			
<u>Sec. 2, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells		<u>Sec. 17, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells	
<u>Sec. 10, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells		<u>Sec. 21, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells	
<u>Sec. 11, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells		<u>Sec. 22, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells	
<u>Sec. 12, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells		<u>Sec. 23, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells	
<u>Sec. 14, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells			
<u>Sec. 15, T. 9N, R. 33W, S.B. B&amp;M</u> All Wells			
Description of the land upon which the well(s) is (are) located			
Date of transfer, sale, assignment, conveyance, or exchange <u>7/01/2002</u>	New Owner <u>Greka SMV, Inc.</u> Address <u>3201 Airpark Drive, Suite 201</u> <u>Santa Maria, California 93455</u>	Operator code <u>G3520</u>	Type of Organization Corp.
Reported by <u>Vintage Petroleum, Inc.</u>			Telephone No. <u>(805) 347-8700</u>
Confirmed by <u>Greka SMV, Inc.</u>			
New operator new status (status abbreviation) <u>PA</u>	Request Designation of Agent		
Old operator new status (status abbreviation) <u>PA</u>	Remarks		
Deputy Supervisor <u>William E. Brannon</u>		Signature <i>William E. Brannon</i>	

**OPERATOR STATUS ABBREVIATIONS**

	FORM AND RECORD CHECK LIST					
	Form or record	Initials	Date	Form or record	Initials	Date
PA - Producing Active						
NPA - No Potential Active						
PI - Potential Inactive	Form OGD121	HC	8/27/02	Map and Book	RB	8/31/02
NPI - No Potential Inactive	Well records	HC	8/27/02	Lease Files		
Ab - Abandoned or No More Wells	New well cards	HC	8/02	EDP	HC	
WEB:hc	Bond Status	HC	8/27/02	District Computer Files	RB	8/29/02
cc: Cons. Committee						
Vintage Petroleum, Inc.						

Santa Barbara County  
Greka SMV, Inc.  
Harold Bertholf  
OGD156 (Modified 1/00)

DIVISION OF OIL AND GAS

Report on Operations

(805) 925-2686

R. E. Irelan, Agent  
Conoco, Inc.  
290 Maple Court, Suite 104  
Ventura, CA 93003

Santa Maria  
July 18, 1985  
Calif.

Your operations at well "Bradley" 4, API No. 083-21852  
Sec. 23, T. 9N, R. 33W SB B. & M. Cat Canyon Field, in Santa Barbara County,  
were witnessed on 7-2-85 P. Truocchio, representative of  
the supervisor, was present from 1330 to 1500. There were also present B. Augustine -  
Reservoir Engineer

Present condition of well: 8 5/8" cem. 504'; 5 1/2" cem. 4778', perf. 4646' - 4694', bad  
casing 4505' - 4510' and 4555' - 4560'. Junk: packer @ 4560'. T.D. 4778'.  
E.D. 4737'.

The operations were performed for the purpose of demonstrating that all the fluid is confined  
to the intended zone.

DECISION: THE OPERATIONS ARE APPROVED AS INDICATING THAT ALL OF THE INJECTION FLUID  
IS CONFINED TO THE FORMATIONS BELOW 4505' AT THIS TIME.

PAT:df

M. G. MEFFERD  
By K. P. Henderson  
K. P. Henderson

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P. O. BOX 227

SANTA MARIA, CALIFORNIA 93456

(805) 925-2686



October 29, 1987

Sheila F. Dormier, Agent  
Shell Western E&P Inc.  
P. O. Box 11164  
Bakersfield, CA 93389-1164

Re: Injection Well Surveys  
Cat Canyon Field  
Well "Bradley" 4

Dear Ms. Dormier:

A requirement of the Division of Oil and Gas for the above-captioned well is to conduct biennial injection profile surveys to confirm that injected fluid is confined to the approved zone. The well has not been surveyed for more than two years and no injection has been reported since July 1985.

Because the casing and/or tubing can deteriorate while wells remain idle, approval to utilize this well for injection is terminated as of this date. All injection lines to the well must be disconnected and the well properly shut in by November 27, 1987.

To reactivate the well, it will be necessary to submit a Notice of Intention to Rework Well (Form OG107). Our response will specify requirements to be fulfilled before injection can resume.

Yours truly,

A handwritten signature in cursive script, appearing to read "K. P. Henderson".

K. P. Henderson  
Deputy Supervisor

AJK:ks

cc: Project Folder

Operator Conoco Inc.Well designation 'Bradley' 4Sec. 23, T. 9N, R. 33W, S. B. & M.Field Cat Canyon, County Santa Barbara was tested for water shutoff on 7-2-85. (Name) P. Truocchio, representative of the supervisor, was present from 1330 to 1500. Also present were B. Augustine, Reservoir Eng.Casing record of well: 8 5/8" cem. 504'; 5 1/2" cem. 4778', perf. 4646'-4699'  
bad casing 4505'-4510' and 4555'-4560'. Junk: packer @ 4560'.  
T.D. 4778'. E.D. 4737'.The operations were performed for the purpose of demonstrating that all the  
fluid is confined to the intended zone.

- ☐ The \_\_\_\_\_ " shutoff at \_\_\_\_\_ ' is approved.
- ☐ The seal between the \_\_\_\_\_ " and \_\_\_\_\_ " casings is approved.
- ☒ The operations are approved as indicating that all of the injection fluid is confined to the formations below 4505 ' at this time.

Hole size: \_\_\_\_\_ " fr. \_\_\_\_\_ ' to \_\_\_\_\_ ' ; \_\_\_\_\_ " to \_\_\_\_\_ ' ; &amp; \_\_\_\_\_ " to \_\_\_\_\_ ' .

Casing				Cemented			Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Depth or interval tested \_\_\_\_\_  
The hole was open to \_\_\_\_\_ ' for test.

## FORMATION TEST:

 Packer(s) \_\_\_\_\_ ' & \_\_\_\_\_ ' Tail \_\_\_\_\_ ' Bean size \_\_\_\_\_ " Cushion \_\_\_\_\_  
 IHP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_  
 Blow \_\_\_\_\_  
 Open for test \_\_\_\_\_ Hr. \_\_\_\_\_ min. Fluid entry \_\_\_\_\_

## BAILING TEST:

 The hole fluid was bailed to \_\_\_\_\_ ' , at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_ .  
 The hole fluid was found at \_\_\_\_\_ ' , at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_ .  
 (time)

## PRODUCTION TEST:

 Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_ , at \_\_\_\_\_ pump depth \_\_\_\_\_ ' Engr. \_\_\_\_\_  
 Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_ , at \_\_\_\_\_ Engr. \_\_\_\_\_  
 Fluid level \_\_\_\_\_ ' surveyed on \_\_\_\_\_ 19\_\_ , reviewed (witnessed) by \_\_\_\_\_  
 Total fluid produced, Bbls. \_\_\_\_\_ Net oil \_\_\_\_\_ Water \_\_\_\_\_  
 Rate: \_\_\_\_\_ B/D oil, \_\_\_\_\_ B/D water, \_\_\_\_\_ % water cut

## INJECTION SURVEY:

 RA/Spinner/Temperature survey run at 530 metered  
 fluid confined below 300 B/D & 800 psi on July 2 1985  
4505 ' (Packer depth 4415 ' )  
bad spots 4505'-4560'  
junk: pkr 4560' perfs 4646'-4699'

### Top Perf Attempt

shot out @ 4500'  
wait 900sec No peaks

### Packer Check

shot out @ 4500'  
wait 300 sec No peaks  
log down fr 4400' - 4475'

peak @ 4475'

### Drop check

4495' - 4500' 543 b/d

### Tbg Check

4400' - 4405'	301 b/d
2220' - 2225	285 b/d
500' - 525'	272

} fluctuating inj rate  
No holes



**DIVISION OF OIL AND GAS**  
**CHECK LIST - RECORDS RECEIVED AND WELL STATUS**

Company Conoco, Inc. Well No. "Bradley" 4  
 API No. 083-21852 Sec. 23, T. 9N, R. 33W, S.B. B.6M.  
 County Santa Barbara Field Cat Canyon

**RECORDS RECEIVED**

**DATE**

Well Summary (Form OGI00) \_\_\_\_\_  
 History (Form OGI03) 11-9-84  
 Core Record (Form OGI01) \_\_\_\_\_  
 Directional Survey \_\_\_\_\_  
 Sidewall Samples \_\_\_\_\_  
 Other \_\_\_\_\_  
 Date final records received \_\_\_\_\_  
 Electric logs: \_\_\_\_\_

**STATUS**

**STATUS**

Producing - Oil	_____	Water Disposal	<input checked="" type="checkbox"/>
Idle - Oil	_____	Waterflood	_____
Abandoned - Oil	_____	Steamflood	_____
Drilling - Idle	_____	Fire Flood	_____
Abandoned - Dry Hole	_____	Air Injection	_____
Producing - Gas	_____	Gas Injection	_____
Idle - Gas	_____	CO2 Injection	_____
Abandoned - Gas	_____	LPG Injection	_____
Gas-Open to Oil Zone	_____	Observation	_____
Waterflood Source	_____		

DATE June 1984 "E" well Yes ☐ No ☐

**RECOMPLETED**

REMARKS Injectivity test started, formally  
converted on Nov. 84

**ENGINEER'S CHECK LIST**

1. Summary, History, & Core record (dupl.) ☒
2. Electric Log ☒
3. Operator's Name ☒
4. Signature ☒
5. Well Designation ☒
6. Location \_\_\_\_\_
7. Elevation \_\_\_\_\_
8. Notices ☒
9. "T" Reports ☒
10. Casing Record \_\_\_\_\_
11. Plugs \_\_\_\_\_
12. Surface Inspection \_\_\_\_\_
13. Production Injection ☒
14. E Well on Prod. Dir. Sur. \_\_\_\_\_

**CLERICAL CHECK LIST**

1. Location change (F-OGD165) \_\_\_\_\_
2. Elevation change (F-OGD165) \_\_\_\_\_
3. Form OGD121 \_\_\_\_\_
4. Form OGI59 (Final Letter) \_\_\_\_\_
5. Form OGD150b (Release of Bond) \_\_\_\_\_
6. Duplicate logs to archives \_\_\_\_\_
7. Notice of Records due (F-OGD170) \_\_\_\_\_
8. EDP (F-OGD42A-1, 2) \_\_\_\_\_

*10-4-85*  
*cont. expired.*  
*OK to release.*  
*SLH*

**RECORDS NOT APPROVED**

Reason: \_\_\_\_\_

**RECORDS APPROVED** ☒ *gm*

**RELEASE BOND**

Date Eligible \_\_\_\_\_

(Use date last needed records were received.)

MAP AND MAP BOOK 310

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION

# DIVISION OF OIL AND GAS

## History of Oil or Gas Well

OPERATOR Conoco Inc. ✓ FIELD Cat Canyon ✓  
Well No. Bradley 4 (083-21852) ✓, Sec. 23, T. 9N, R. 33W, S.B. B. & M.  
Date November 1, 19 84 ✓ Signed B. D. Meyers ✓  
290 Maple Ct, Ste 128; Ventura 93003 (805) 642- Title Division Engineer  
(Address) (Telephone Number) 8154 (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

6-10-84 TD: 4788', PBTD: ~~4694~~ 4727'  
MIRU. Worked pump off seat and POOH swabbing heavy oil. SDON.

6-11-84 Bled down csg. POOH with 2-7/8" tubing. RIH with casing scraper to 4637. RU circ. pump. Broke circ. with 170 bbls hot H<sub>2</sub>O, circ. out approx. 30 bbls crude. Circ. hole clean. POOH. SDON.

6-12-84 RU test truck. RU & RIH with Baker AD-1 5 1/2 - 15.5# tension packer. Tested tubing in hole with 5000 psi, no leaks. Landed tubing on flange. Change hole over with packer fluid. Set packer with 22,000# tension. Landed tubing with Baker bushing & flange. Filled casing, testing to 500 psi. Held. Flanged up. Closed well in. RDMO.

7-02-84 MIRU. Tried to bleed well down, 350 bbls flowed back. Close in pressure on tubing, 500 psi. Shut rig down, cont'd flow back.

7-03-84 Shut in pressure tbg. Cont'd bleeding well down, could not bleed off. Closed well in. Shut down.

7-05-84 Bled well down. Strip off flange head. Strip on BOE. Released baker AD-1 packer, could not "J" packer in neutral position. Sheared packer, pulled up hole 30', hung up @ 4565'. Freed tubing. POOH. Last two joint tubing bent flat, packer had broken off below top collar on mandrel. MU & RIH with fishing tools, tagged fish or bad csg ! 4514'. RIH with I.B. on sandline, stopped @ 4520'. POOH. Picture on I.B. indicates Pos. collapse casing. RIH with kill string. SDON.

7-06-84 POOH with kill string. RU Dial-Log, run minimum ID log. Located tight spot at 4506'-4510'. Could not get below 4560' with 3-1/8" tool. Tight from 4555'-4560'. RD wireline. RIH with rods, tagged @ 4572', possibly tagged on packer, POOH. PU & RIH with scraper to 4500'. POOH. RU Loomis Testers. Solid test first stand & sliding sleeve & tubing at 5000 psi, no leaks. Remove floor & BOE. Pumped filtered lease water and packer fluid down casing. Set packer, 20 pts tension. Flanged up wellhead. Shut Down.

7-30-84 MIRU. POOH with rods and pump, swabbing heavy oil. Flush with 4 bbls KD and 10 bbls water. RIH with exch. pump and rods, floating part way. Fill and test, respace. RDMO.

113	115	117

11-13-84  
DF

## Memorandum

To : Gayle Akers  
E.D.P. Unit


Date : November 20, 1984

Subject: Injectivity Test  
Cat Canyon Field  
Sisquoc Area  
Thomas Zone

From : Department of Conservation—Division of Oil and Gas  
Office: Santa Maria

Permission was requested by Conoco Inc. on May 26, 1984 to conduct an injectivity test in well "Bradley" 4. The injectivity test was successful and the operator has subsequently been granted approval for a new water disposal project.

We would like to enter past and future data into the EDP system. Please add the data (110's attached) to the well type, field, area and pool codes that will be submitted by Mary Jane on November 21, 1984.

  
for Adelbert Koller  
Associate Oil & Gas Engineer

AJK:mjn  
Attachment (5 pages)

DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P. O. BOX 227

SANTA MARIA, CALIFORNIA 93456

(805) 925-2686



November 20, 1984

G. F. Gibbins, Agent  
Conoco Inc.  
290 Maple Court, Suite 128  
Ventura, CA 93003

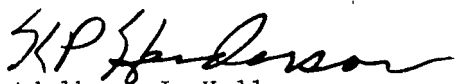
Water Disposal  
Cat Canyon Field  
Sisquoc Area  
Thomas Zone  
Well No. "Bradley" 4

Dear Mr. Gibbins:

Now that well no. "Bradley" 4 has been formally approved for injection in report No. P384-515 dated November 20, 1984, the reporting procedure will be different from that specified in our letter dated May 26, 1984 addressed to Mr. G. F. Gibbins. The injection rates, pressures, etc. shall be reported monthly on form OG110B and sent to our EDP Unit, 1416 - 9th St., Room 1310, Sacramento, CA 95814.

We have submitted all prior reports from June 1984 through October 1984 to our EDP Unit to be included in the statistical data for the Thomas pool.

If you need assistance please contact this office.

*for*   
Adelbert J. Koller  
Associate Oil & Gas Engineer

AJK:mjn

# MONTHLY INJECTION REPORT

DOG 38  
MONTH OF REPORT  
October  
YEAR  
19 84

O P E R A T O R	conoco Inc.				1 FOR DIVISION USE ONLY								2 DOCUMENT NO.
	290 Maple Ct.				FIELD Cat Canyon COUNTY Santa Barbara								
	Suite #128												
	Ventura, CA 93003												
3	LINE NO.	OPERATOR WELL NUMBER	WELL TYPE	4 API WELL NUMBER	5 PWCD	6 WATER OR STEAM INJECTED (bbl)	7 GAS OR AIR INJECTED (Mcf)	8 NO. OF DAYS WELL INJECTED	9 SURFACE INJECTION PRESSURE	10 SOURCE OF WATER	11 KIND OF WATER	12 REASON WELL NOT INJECT.	Do not use this space
	Bradley#4	WD	083-21852		14,193	-	20	1076	1	1			
	Goodwin"A" #19	WD	083-20639		98,901	-	31	1112	1	1			

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
**DIVISION OF OIL AND GAS**

NOTE: IF YOU ARE NO LONGER THE OPERATOR OF A WELL, ENTER "9" IN COLUMN 12.  
See back for well type, source of water, kind of water, and reason well not injecting codes.  
(Original copy must be filed each month. Failure to file is a misdemeanor, Sec. 3236, Public Resources Code.)

ORIGINAL

MONTH OF REPORT	YEAR
September	19 84

Do not use this space

NOTE: IF YOU ARE NO LONGER THE OPERATOR OF A WELL, ENTER "9" IN COLUMN 12.  
See back for well type, source of water, kind of water, and reason well not injecting codes.  
(Original copy must be filed each month. Failure to file is a misdemeanor, Sec. 3236, Public Resources Code.)

## MONTHLY INJECTION REPORT

DIVISION OF OIL AND GAS  
RECEIVED

YEAR

19 84

DOCUMENT NO.

SEP 10 1991

**Santa Maria, California**

[illegible]

ORIGINAL

## DIVISION OF OIL AND GAS

NOTE: IF YOU ARE NO LONGER THE OPERATOR OF A WELL, ENTER "9" IN COLUMN 12.

See back for well type, source of water, kind of water, and reason well not injecting codes.

(Original copy must be filed each month. Failure to file is a misdemeanor, Sec. 3236, Public Resources Code.)

Prepare in triplicate - Type or print in unshaded areas - Do not fold, spindle or mutilate

# MONTHLY INJECTION REPORT

MONTH OF REPORT

July

YEAR

84

O P E R A T O R	Conoco Inc. 290 Maple Ct. Suite 128 Ventura, CA 93003					1 FOR DIVISION USE ONLY							2 DOCUMENT NO.												
						FIELD Cat Canyon																			
						COUNTY Santa Barbara																			
3	LINE NO.	4	OPERATOR WELL NUMBER	5	WELL TYPE	6	API WELL NUMBER	7	PWCD	8	WATER OR STEAM INJECTED (bbl)	9	GAS OR AIR INJECTED (Mcf)	10	NO. OF DAYS WELL INJECTED	11	SURFACE INJECTION PRESSURE	12	SOURCE OF WATER	13	KIND OF WATER	14	REASON WELL NOT INJECT.	Do not use this space	
			Bradley #4	WD		083-21852					39,335				24		1142		1		1				
			Goodwin - "A" 19	WD		083-20639					27,660				31		876		1		1				



MONTH OF REPORT	YEAR
June	19 84

**Do not use this space**

See back for well type, source of water, kind of water, and reason well not injecting codes  
(Original copy must be filed each month. Failure to file is a misdemeanor, Sec. 3236, Public Resources Code.)

# PERMIT TO CONDUCT WELL OPERATIONS

WATER DISPOSAL PROJECT  
SISQUOC AREA  
THOMAS ZONE

G. F. Gibbins, Agent  
Conoco Inc.  
290 Maple Court, Suite 128  
Ventura, CA 93003

128  
(field code)  
15  
(area code)  
25  
(new pool code)  
00  
(old pool code)

Santa Maria, California  
November 20, 1984

convert to

Your \_\_\_\_\_ proposal to water disposal well "Bradley" 4,  
A.P.I. No. 083-21852, Section 23, T. 9N, R. 33W, S.B. B. & M.,  
Cat Canyon field, Sisquoc area, Thomas pool,  
Santa Barbara County, dated 11-1-84, received 11-9-84 has been examined in conjunction with records  
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. This well conforms to the provisions set forth in our letter of October 25, 1984, approving the project.
2. Copies of all surveys are filed with this division.
3. A step-rate pressure test is conducted prior to sustained injection above 1175 psi plus friction flow losses.
4. THIS DIVISION IS NOTIFIED:
  - a. To witness all injection profile surveys referred to in item 5 of the above-referenced letter, the first within three months after injection has commenced.

NOTES:

1. The base of the freshwater deposits is at 1500'. The freshwater deposits are protected by the 5 1/2" casing cemented at 4778' with sufficient cement to fill to 3400'.
2. Injected water might also have some waterflood effect.

Blanket Bond  
AJK:mjn

Engineer Al Koller  
Phone (805) 925-2686

M. G. MEFFERD, State Oil and Gas Supervisor

By K. P. [Signature]  
Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111 (1/84/DWRR/5M)

# DIVISION OF OIL AND GAS

## Notice of Intention to Rework Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY		
BOND	OGD114	OGD121
Blanket	✓	11-13-84 DF

### DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3. Public Resources Code, notice is hereby given that it is our intention to rework well No. Bradley #4, API No. 083-21852, Sec. 23, T. 9N, R. 33W, S.B. B. & M., Cat Canyon Field, Santa Barbara County.

The present condition of the well is as follows:

- Total depth. 4788' PBTB: 4737'
- Complete casing record, including plugs and perforations:  
8-5/8" K-55 ST&C 24# 0'-504', w/310 ft<sup>3</sup> cmt.  
5-1/2" K-55 LT&C 17# 0'-4778', w/1010 ft<sup>3</sup> cmt.

#### Perforations:

4646' - 4694', 8 1/2" SPF

Dark: packer @ 4570'

- Present producing zone name Thomas Zone in which well is to be recompleted Same
- Present zone pressure \_\_\_\_\_ New zone pressure \_\_\_\_\_
- Last produced \_\_\_\_\_  
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)  
or  
Last injected 10-31-84 586 --- 1115  
(Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

Convert to permanent injection well. (History attached)

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 290 Maple Court, Ste 128  
(Street)  
Ventura, CA 93003  
(City) (State) (Zip)

Telephone Number (805) 642-8154

Conoco, Inc.  
(Name of Operator)  
By Burt H. Meyer 11-1-84  
(Name) (Date)

Type of Organization Corporation  
(Corporation, Partnership, Individual, etc.)

CC: DOG, Exploration, JADB, JBB, Well File, 4700-3-5

DIVISION OF OIL AND GAS

(805) 925-2686

Report on Operations

G. F. Gibbins, Agent  
Conoco Inc.  
290 Maple Court, Suite 128  
Ventura, CA 93003

Santa Maria, Calif.  
July 20, 1984

Your operations at well "Bradley" 4, API No. 083-21852,  
Sec. 23, T. 9N, R. 33W, S.B. B. & M. Cat Canyon Field, in Santa Barbara County,  
were witnessed on 7-16-84. S. Fields, representative of  
the supervisor, was present from 1400 to 1600. There were also present J. Brubaker,  
engineer

Present condition of well: 8 5/8" cem. 504'; 5 1/2" cem. 4778', perf. 4646-4694', bad  
casing 4505-4510' and 4555-4560'. Junk: Packer @ 4560'. T.D. 4778'. E.D. 4737'.

The operations were performed for the purpose of demonstrating that the injection fluid is  
entering the intended zone at this time.

DECISION: THE OPERATIONS ARE APPROVED AS INDICATING THAT ALL OF THE INJECTION FLUID  
IS CONFINED TO THE FORMATIONS BELOW 4505' AT THIS TIME.

SF:mjn

M. G. MEFFERD

State Oil and Gas Supervisor

By

K. P. Henderson

Deputy Supervisor

K. P. HENDERSON

RA

Operator Conoco IncWell designation 'Bradley' 4 Sec. 23, T. 9N, R. 33W, S.B. & M.Field Cat Canyon, County Santa Barbara was tested for water shutoff on July 16, 1984. (Name) S. Fields, representative of the supervisor, was present from 1400 to 1600. Also present were J. Brubaker, EngineerCasing record of well: 8 5/8" ann. 504'; 5 1/2" ann. 4778', perf. 4646'-4694', bad casing 4505'-4510' and 4555'-4560'. Junk: Packer 4560', T.D. 4778' E.D. 4737'.The operations were performed for the purpose of demonstrating that the injection fluid is entering the intended zone at this time.☐ The \_\_\_\_\_" shutoff at \_\_\_\_\_' is approved.☐ The seal between the \_\_\_\_\_" and \_\_\_\_\_" casings is approved.☒ The operations are approved as indicating that all of the injection fluid is confined to the formations below 4505' at this time.

Hole size: \_\_\_\_\_" fr. \_\_\_\_\_' to \_\_\_\_\_'; \_\_\_\_\_" to \_\_\_\_\_'; &amp; \_\_\_\_\_" to \_\_\_\_\_'

Casing				Cemented		Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing		

Depth or interval tested \_\_\_\_\_  
The hole was open to \_\_\_\_\_' for test.

## FORMATION TEST:

Packer(s) \_\_\_\_\_' &amp; \_\_\_\_\_' Tail \_\_\_\_\_' Bean size \_\_\_\_\_" Cushion \_\_\_\_\_

IHP \_\_\_\_\_ IFP \_\_\_\_\_ FFP \_\_\_\_\_ FHP \_\_\_\_\_

Blow \_\_\_\_\_

Open for test \_\_\_\_\_ Hr. \_\_\_\_\_ min. Fluid entry \_\_\_\_\_

## BAILING TEST:

The hole fluid was bailed to \_\_\_\_\_', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.

The hole fluid was found at \_\_\_\_\_', at \_\_\_\_\_ on \_\_\_\_\_ 19\_\_.

(time)

## PRODUCTION TEST:

Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ pump depth \_\_\_\_\_' Engr. \_\_\_\_\_

Gauge/meter reading \_\_\_\_\_ on \_\_\_\_\_ 19\_\_, at \_\_\_\_\_ Engr. \_\_\_\_\_

Fluid level \_\_\_\_\_' surveyed on \_\_\_\_\_ 19\_\_, reviewed (witnessed) by \_\_\_\_\_

Total fluid produced, Bbls. \_\_\_\_\_ Net oil \_\_\_\_\_ Water \_\_\_\_\_

Rate: \_\_\_\_\_ B/D oil, \_\_\_\_\_ B/D water, \_\_\_\_\_ % water cut 30

## INJECTION SURVEY:

RA/Spinner/Temperature survey run at 2500-2600 ID & 1290 psi on 7/16 1984, fluid confined below 4505' (Packer depth 4448' )could not get below 4505. Slugout @ 4380, wait 300 secs, OK, log dm to 4500  
OK. Tbg OKs OK. (1) Joint up from packer gave a lower rate than  
other points above and below. (over)

while doing the velocity shots, shot @ 4400, followed slug  
down to 4505, waited for 2-3 min., no slug

## DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P. O. BOX 227

SANTA MARIA, CALIFORNIA 93456

(805) 925-2686



September 13, 1984

G. F. Gibbins, Agent  
Conoco, Inc.  
290 Maple Court, Suite 128  
Ventura, California 93003

Re: Injectivity Test  
Well No. "Bradley" 4  
Cat Canyon Field  
Sisquoc Area, Thomas Zone

Dear Mr. Gibbins:

In response to your request dated September, 1984, approval is hereby granted to allow an additional 30 cumulative days for the injectivity test in the above captioned well. In all other respects, the testing procedure must be performed in a manner consistent with our letter of May 26, 1984.

We have not received the monthly injection report (form OG110B) for the month of June, 1984. Please submit that data as soon as possible to this office.

We have resumed processing of your application for the new water disposal project. Final approval should take about 30 days.

Very truly yours,

K. P. Henderson  
Deputy Supervisor

AJK:ks



Conoco Inc.  
290 Maple Court - Suite 128  
Ventura, CA 93003  
(805) 642-8154

DIVISION OF OIL AND GAS  
RECEIVED

September 5, 1984

Santa Maria, California

Mr. Ken P. Henderson, Deputy Supervisor  
California Division of Oil and Gas  
Santa Barbara County  
301 West Church Street  
P.O. Box 227  
Santa Maria, California 93456

Dear Mr. Henderson:

Re: Bradley No. 4 90-Day Injectivity Test

Conoco Inc. has been injecting into the Thomas Sand Reservoir in Bradley No. 4 since June 19, 1984. This was allowed via a permit to test injectivity into the Thomas Sand Reservoir for 90 days dated May 26, 1984 from CDOG to Conoco Inc. Conoco requests an extension of the 90-day test in an effort to maintain field injection of produced fluids and thereby maintain Cat Canyon Field oil production. The 90-day testing period, with the exception of a few shut-in days, expires September 19, 1984. It is our understanding from Mr. Al Kohler of your office that the application for permanent, continuous injection into the Thomas Sand has been held up pending the resolution of an objection by Getty Oil Company. In a telephone conversation on August 29, 1984 between Chris Bardet of Getty Oil Company and Jennie Brubaker of Conoco Inc., Chris Bardet commented that Getty would allow Conoco continuous produced fluids injection into the Thomas Sand. Since Getty's was the only major objection received and the evaluation of the application, thus far, by your office has been favorable, Conoco believes approval of the Thomas Sand Injection Project will be obtained in the near future, but probably not before the end of the subject 90-day test period.

Based on this background, Conoco would like to continue injecting produced fluids into Bradley No. 4 until the final decision is made on our application for permanent injection. All standards and rules set forth in the initial approval for the 90-day test would be maintained.

If you have any questions or comments about this request for an extension, please contact Jeffrey L. Anderson at (805) 642-8154. We would greatly appreciate your timely response on this matter. Thank you for your time and cooperation.



Mr. Ken P. Henderson  
Page 2  
September 5, 1984

Very truly yours,

A handwritten signature in cursive script, appearing to read "B. D. Meyers", with a long horizontal flourish extending to the right.

B. D. Meyers  
Division Engineer

lem/eng

cc: CDOG (Original +1)  
JLS BOB JLA DLD JDAB  
File 4300-15-1  
Bradley No. 4 Well File



KH  
me

Getty Oil Company | P. O. Box 811, Ventura, California 93002 • Telephone (805) 643-2154

Western Exploration and Production Division Richard O. Callaway, District Production Manager

September 5, 1984

DIVISION OF OIL AND GAS  
RECEIVED

SEP 6 1984

Santa Maria, California

Mr. K. P. Henderson  
Division of Oil & Gas  
Post Office Box 227  
Santa Maria, California 93456

Dear Mr. Henderson:

We objected to Conoco, Inc.'s proposal to inject waste water in their Bradley #4 well in our letter dated June 21, 1984. We believed the zones of interest in the area were producible, since Conoco regarded information of Bradley #3 and #4 on Section 23, T9N, R33W confidential. Therefore, in that letter, we concluded that injection of waste water would be detrimental to the future productivity of Getty Oil Company's offset properties.

As a result of our objection, Ms. J. D. Brubaker of Conoco provided information concerning Bradley #3 and #4 (actual field production gauges and pressure data). We have re-evaluated Conoco's proposal to convert Bradley #4 to waste water injection in light of the additional data supplied. This data indicates that a permeability barrier may isolate Bradley #4 from Bradley #3 and possibly our property. This assumption is inconclusive without additional data from Conoco. Therefore, we will not object to the injection of waste water in Bradley #4 on the stipulation that Conoco agrees to provide accurate monthly production data and the actual field production gauges that compose these reports for all current and future Thomas zone producers on their offsetting Bradley lease (Bradley #3 only, at this time). The injection volumes should also be made available. The 110-B reports are an acceptable means of providing this information. We will not divulge any confidential data received.

If you have any questions or would like additional information, please contact me at the letterhead address.

Very truly yours,

GETTY OIL COMPANY

  
R.O. CALLAWAY  
District Production Manager

HDH:kc

cc: Mr. B.S. Newman  
Mr. B.D. Meyers, Division Engineer  
Conoco Inc.  
290 Maple Court - Suite 128  
Ventura, California 93003

## DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P. O. BOX 227

SANTA MARIA, CALIFORNIA 93456

(805) 925-2686



July 30, 1984

G. F. Gibbins, Agent  
Conoco Inc.  
290 Maple Court, Suite 128  
Ventura, CA 93003

Injectivity Test  
Well No. "Bradley" 4  
Cat Canyon Field  
Sisquoc Area  
Thomas Zone

Dear Mr. Gibbins:

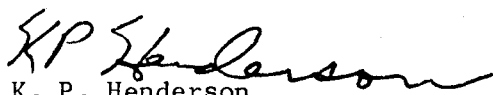
We have received an objection from Getty Oil Co. (copy attached) regarding injection of waste water into well "Bradley" 4.

After this division reviewed the geological material submitted with your project application, we feel that Getty's objection is justified. Because the proposed injection well is less than 200' from the property line, watering out the Thomas zone on the neighboring lease would be likely. Since Getty is not currently producing from the Thomas zone, a producing well monitoring program could not be initiated as is normally established when receiving complaints of this nature.

Because of the detrimental effect to future productivity of the Thomas zone on the adjacent lease, we will discontinue processing your application for a new water disposal project until the matter is resolved between Getty and Conoco Inc. However, the 90 day injectivity test can still be completed as approved in our letter of May 26, 1984.

If we can be of further assistance please contact Al Koller of this office.

Very truly yours,

  
K. P. Henderson  
Deputy Supervisor

AJK:mjn  
Attachment

## DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P. O. BOX 227

SANTA MARIA, CALIFORNIA 93456

(805) 925-2686



May 26, 1984

G. F. Gibbins, Agent  
Conoco, Inc.  
290 Maple Court, Suite 128  
Ventura, CA 93003

Injectivity Test  
Well "Bradley" 4  
Cat Canyon Field  
Sisquoc Area  
Thomas Zone

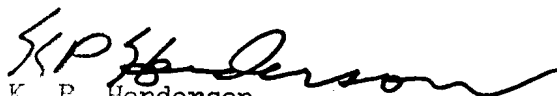
Dear Mr. Gibbins:

In response to your request dated May 16, 1984, approval is hereby granted for Conoco, Inc. to conduct injectivity tests in the Thomas zone in well "Bradley" 4 (083-21852), Sec. 23, T.9N, R.33W, S.B.B&M. The testing period shall not exceed 90 cumulative days and surface injection pressure shall not exceed 1200 psi, except while performing the step-rate test. Please notify a division engineer to witness the step-rate test.

Injection volumes and pressures shall be reported monthly to this office on our Form OG110B, a supply of which is enclosed. These forms should be sent to this district office and should not be included in your regular monthly 110 report to our Sacramento office.

If you have any questions concerning the testing or reporting procedures, please contact Al Koller of this office.

Sincerely,

  
K. P. Henderson  
Deputy Supervisor

KPH:dt



G. F. Gibbins  
Manager of Production  
Ventura Division

Conoco Inc.  
290 Maple Court - Suite 128  
Ventura, CA 93003  
(805) 642-8154

9/15/84

May 16, 1984

DIVISION OF OIL AND GAS  
CALIFORNIA

Santa Maria, California

Mr. Kenneth P. Henderson  
Deputy Supervisor  
Division of Oil and Gas  
Post Office Box 227  
Santa Maria, CA 93456

Dear Mr. Henderson:

With this letter, Conoco Inc. is requesting approval from the California Division of Oil and Gas to conduct injectivity tests on Bradley No. 4, located in the Cat Canyon Field. The well is located 1687' FNL, 2130' FEL, Section 23, T9N, R33W, S.B.B. & M. (See Figures 1 and 2). The injectivity tests, to be performed in conjunction with a step-rate test, will be run to determine ultimate injection capacity of the well in the Thomas Sand interval from 4646' - 4694', along with the formation fracture gradient for the Thomas Sand. The injectivity tests will be performed while Conoco is awaiting approval of a Thomas Sand disposal project, to be submitted to the Division of Oil and Gas within two weeks.

Except for the step-rate portion of the testing, maximum surface injection pressures will be limited to 1240 psig plus frictional flow losses (0.7 psi/ft - 0.433 psi/ft) (4646 ft.), and injection rates will be governed by the injection pressures. Injection into the Thomas Sand will be through 3½-inch tubing landed in a packer above the perforated interval. The water used for the injectivity test will be produced water from Conoco's Cat Canyon Field (See Figure 4).

The proposed testing schedule is as follows:

1. POOH with rods, pump, and tubing.
2. RIH with packer and set at 4600'±.
3. Pressure test casing-tubing annulus to 2000 psi.
4. Perform step-rate tests.
5. Perform injectivity tests.

Once approved, it is estimated that the testing program for Bradley No. 4 will take no longer than 90 days.

Mr. Kenneth P. Henderson  
Page 2  
May 16, 1984

Your prompt response is requested.

Sincerely yours,

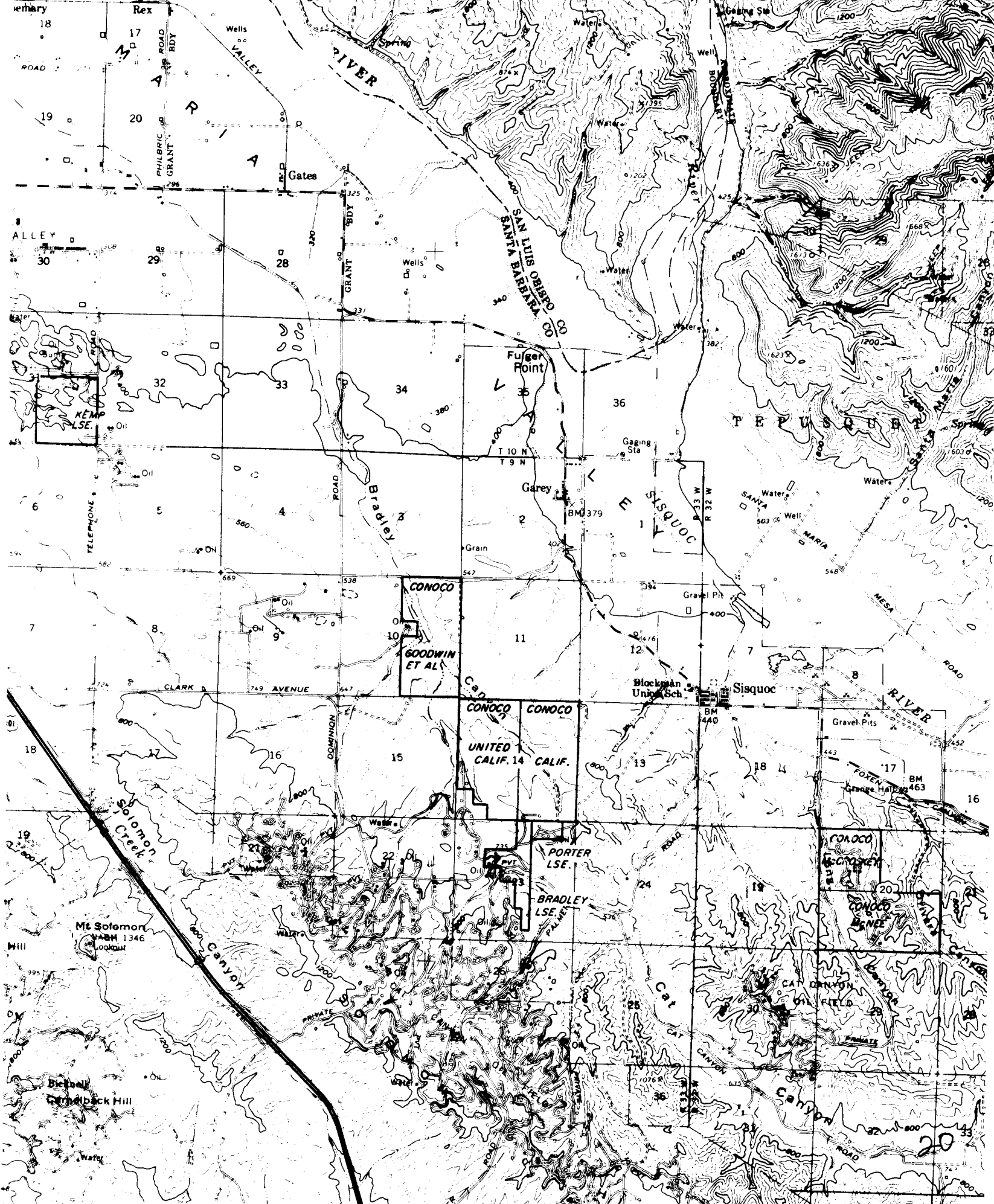
A handwritten signature in cursive script, appearing to read "Basil D. Rose".

G. F. Gibbins  
Division Manager of Production

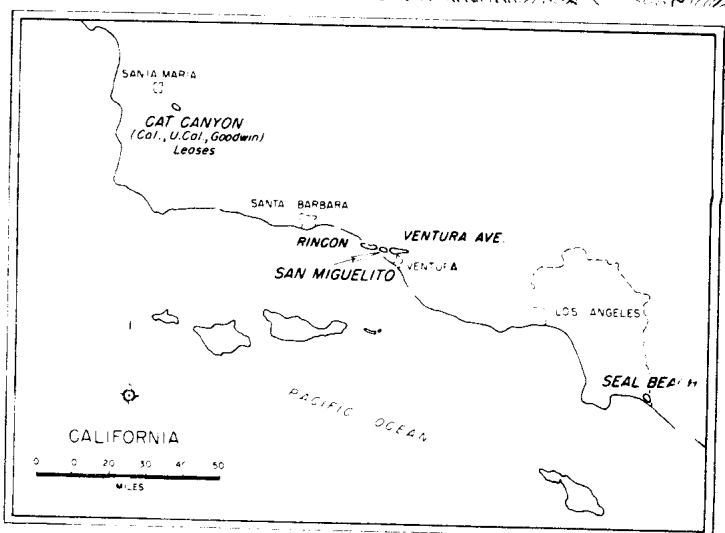
rw

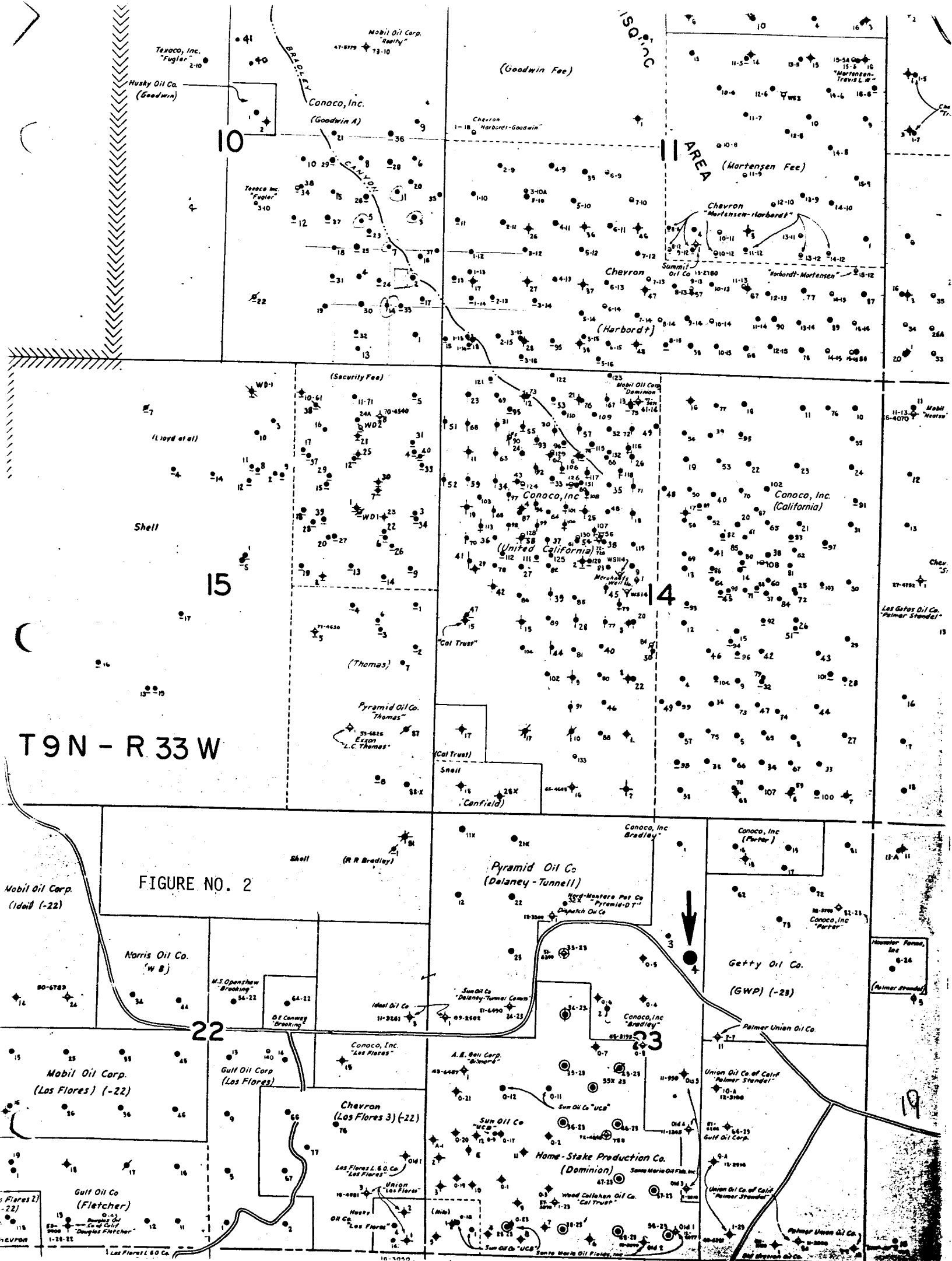
Attachments

cc: BDM, BDR, DLD, JLA, JHW, JDAB, KJS, File 4300-15-1  
R. E. McKee  
Bradley No. 4 Well File



CONOCO INC.  
CAT CANYON LOCATION MAP  
SANTA BARBARA, CO., CALIF.







SPUD. -83

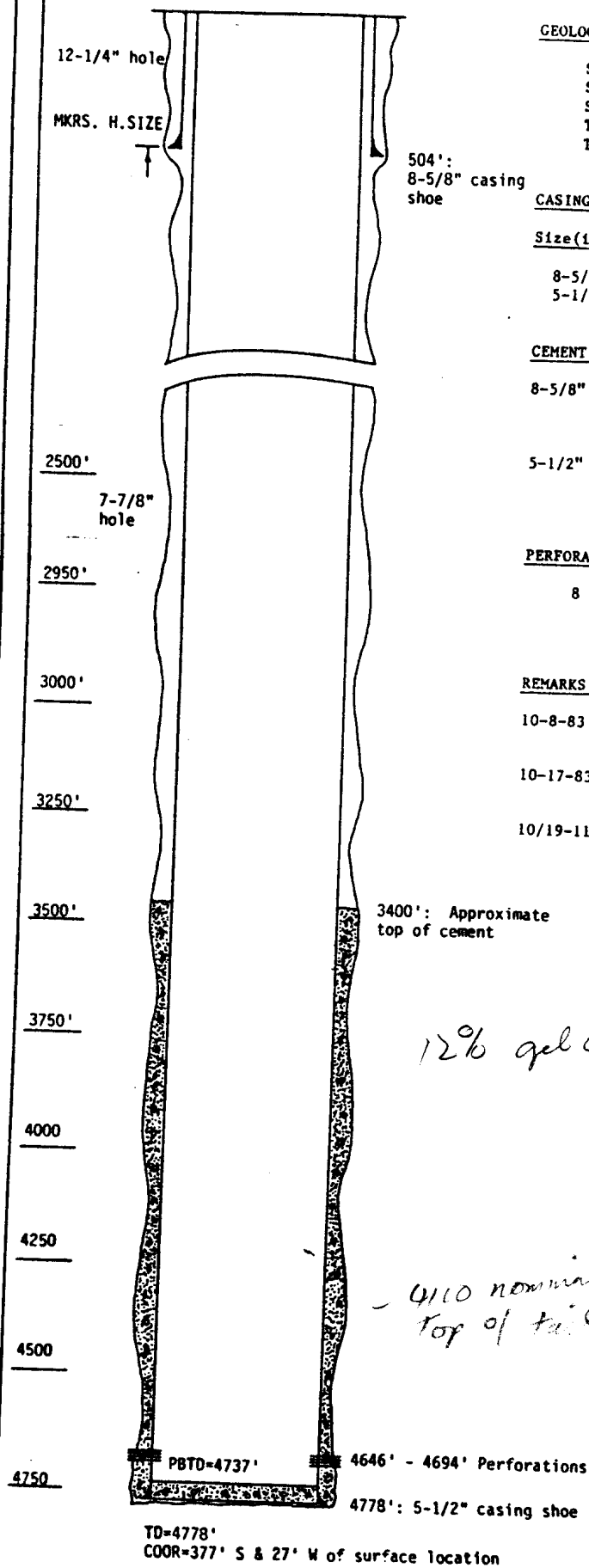
RIG RELEASED. 10-3-83

COMPL. 3-83

I. P. 7 BOPD/5 BWPD

GR. EL. 774.04'

K. B. EL. 786.54'

COOR. 1686.76' FNL & 2130.26' FEL of NE corner of  
Section 23, T9N, R33W, S.B.B. & M.GEOLOGIC TOPS

Sisquoc	2747'	(SSVD = -1955')
S1b	3132'	(SSVD = -2337')
S8	3960'	(SSVD = -3152')
Thomas Sand	4641'	(SSVD = -3819')
Top Miocene	4694'	(SSVD = -3811')

CASING DETAIL

Size(in.)	Weight(#/ft.)	Grade	Type	Interval(ft.)
8-5/8	24	K-55	ST&C	0 - 504
5-1/2	15.5	K-55	LT&C	0 - 4778

CEMENTING

- 8-5/8" -- Preflush 50 cf. water, pump 310 cf. Class "C" with 2% CaCl<sub>2</sub>. Bump plug with 1500 psi. Float did not hold. Pressure test to 295 psi, held okay.
- 5-1/2" -- Mudflush 15 bbls., pump 1010 cf. Class "C" with 12% gel, followed with 125 cf. Class "C". Lost circulation while displacing. Did not bump plug.

PERFORATIONS

- 8 holes per foot, 120° phasing, premium charges, 3-5/8" guns
- 4646' - 4694' 48' Thomas Sand

REMARKS AND HISTORY

- 10-8-83 Acidize with 15% HCl, 12% - 3% HCl-HF, and 2% NH<sub>4</sub>Cl with packer. No response.
- 10-17-83 Reperforate well in Thomas Sand, 8 holes per foot, 120° phasing, premium charges, 4" guns.
- 10/19-11/25-83 Pressure buildup.

REV. NO.	BY	DATE
CONOCO INC.		
BRADLEY N° 4		
DATE: 12-2-83	SCALE	
DR. NO.	PAGE	OF

FIGURE NO. 3

# DILWELL RESEARCH, INC.

October 20, 1983

Laboratory No.: 1165

CONOCO, INC  
290 Maple Court  
Ventura, CA 93003

Received: 10-11-83

Attention: Mr. Brent Myers  
cc: George Smith

Marked: Wastewater  
@ Wemco Discharge

## REPORT OF GEOCHEMICAL ANALYSIS

Analyzed for:	Milligrams Per Liter	Grains Per U.S. Gallon	Reacting Value	Percent
Sodium	1,700	100	75.9	46.67
Ammonium	24	1.4	1.33	0.82
Calcium	30	1.8	1.5	0.92
Magnesium	31	1.8	2.55	1.57
Barium	2.2	0.13	0.03	0.02
Iron	0.82	0.05	-	-
Sulfate	210	12	4.37	2.69
Chloride	2,320	140	65.4	40.24
Iodide	7.4	0.43	0.06	0.04
Borate	37	2.2	0.48	0.29
Hydroxide	0	0	0	0.00
Carbonate	0	0	0	0.00
Bicarbonate	670	39	11	6.74
Organic Acids**	93	5.4	-	-
Silica	140	8.2	-	-
Total Solids	5,245			
Salinity as NaCl	2,800			
Hardness as CaCO <sub>3</sub>	200			
Specific Gravity	1.008	@ 60°F	= .436	
Resistivity	1.2	ohm m @ 75°F		
pH Value	7.6			

### GROUPS

### CHEMICAL CHARACTER

Alkalies	47.49%	Primary Salinity	85.93%
Earths	2.51%	Secondary Salinity	0.00%
Strong Acids	42.97%	Primary Alkalinity	9.05%
Weak Acids	7.03%	Secondary Alkalinity	5.02%

\* Indicates less than

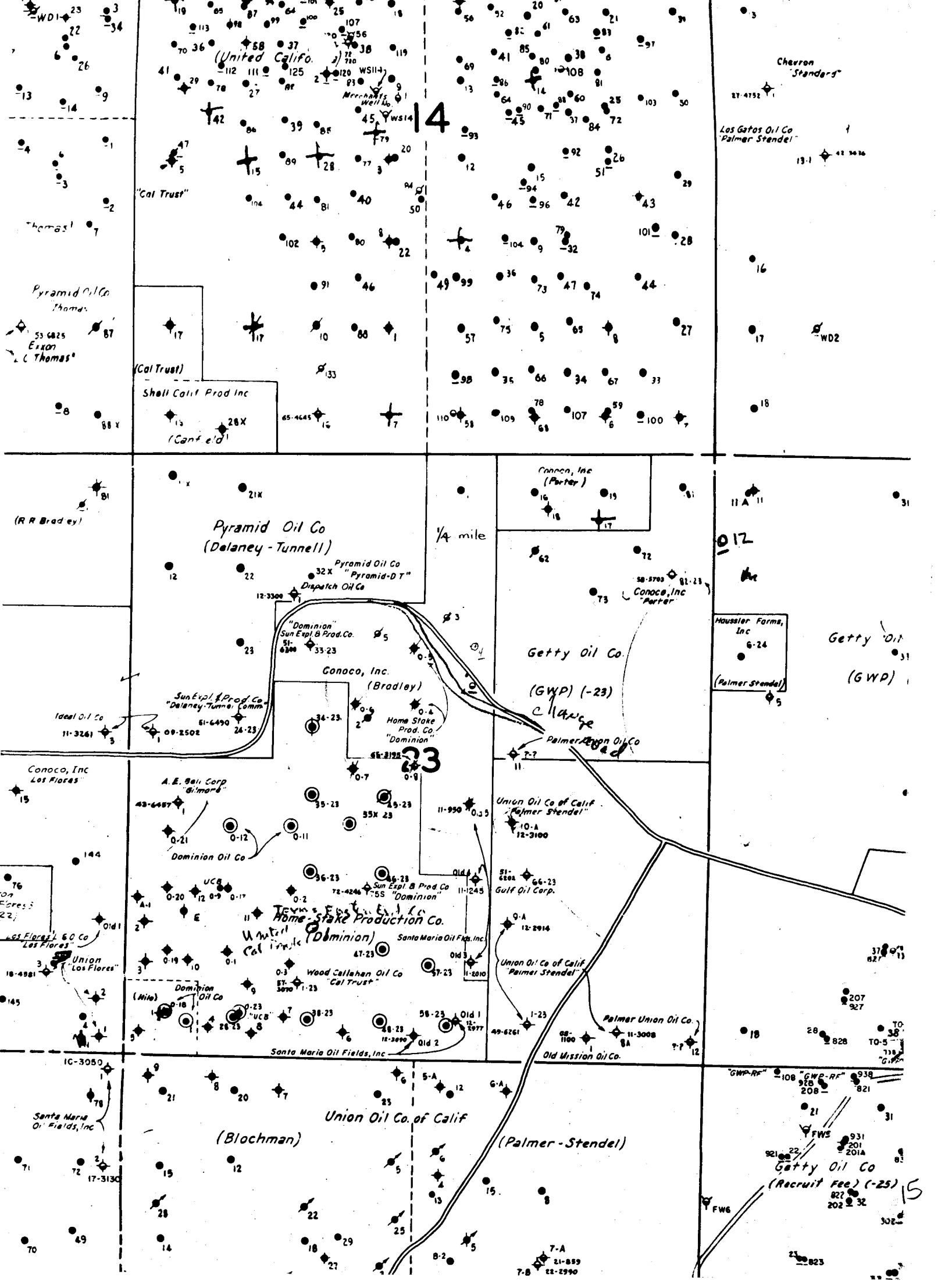
\*\* Calculated as acetic acid

COASTAL DIVISION

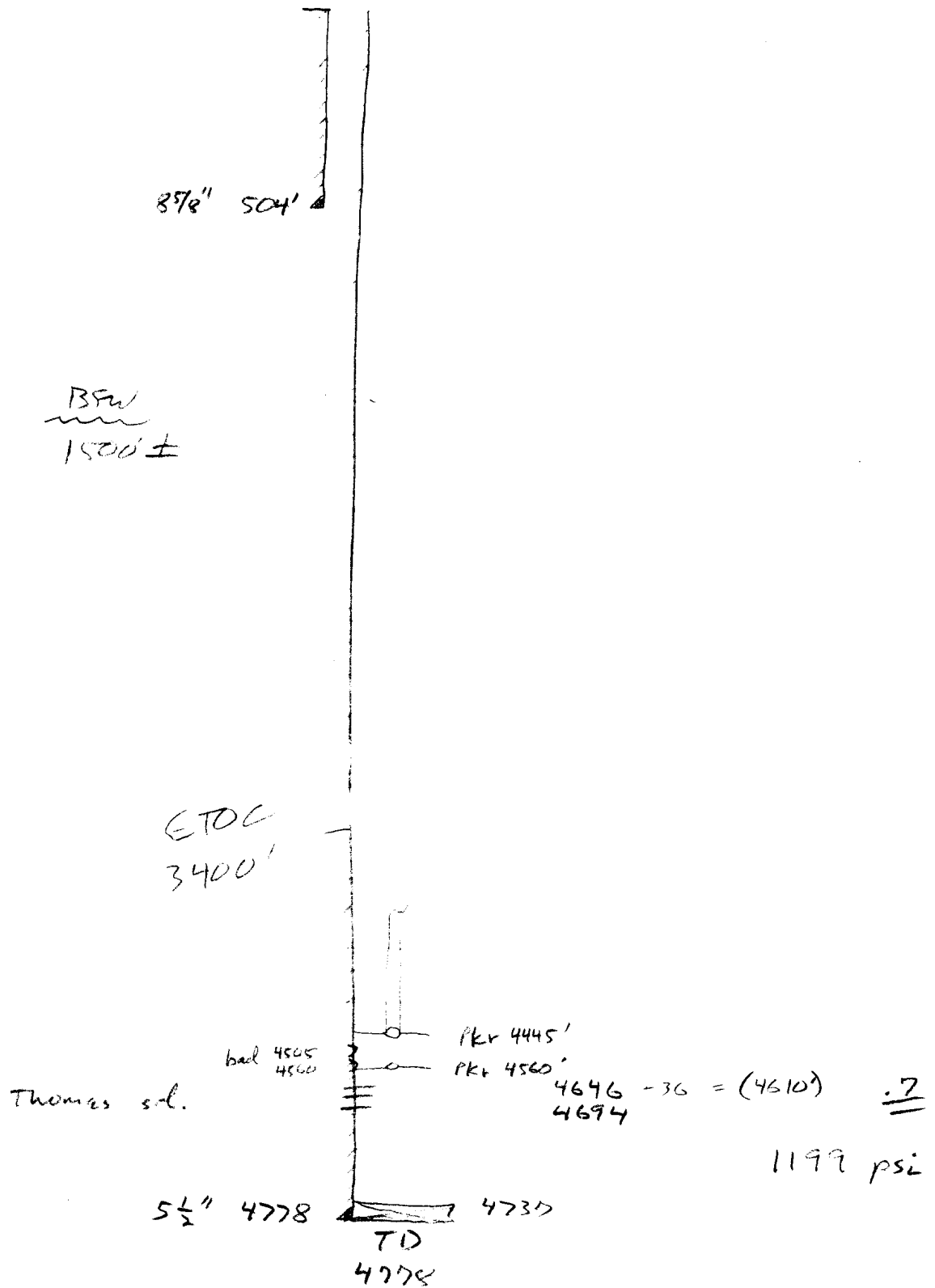
FIGURE NO. 4

"Bradley" 4

16



CONOCO INC.  
 "Bradley" 4  
 Cat Canyon



**DIVISION OF OIL AND GAS**  
**CHECK LIST - RECORDS RECEIVED AND WELL STATUS**

Company Conoco, Inc. Well No. "Bradley" 4  
API No. 083-21852 Sec. 23, T. 9N, R. 33W, S.B. B.&M.  
County Santa Barbara Field Cat Canyon

<u>RECORDS RECEIVED</u>	<u>DATE</u>
Well Summary (Form OGI00)	<u>12-29-83</u>
History (Form OGI03)	<u>12-29-83</u>
Core Record (Form OGI01)	
Directional Survey	<u>12-8-83</u>
Sidewall Samples	
Other	
Date final records received	
Electric logs: <u>Dual Induction Laterolog</u>	<u>12-8-83</u>
<u>Comp. Density Comp. Neutron log</u>	<u>12-8-83</u>
<u>X-Y log</u>	<u>12-8-83</u>
<u>Mud log</u>	<u>12-8-83</u>
<u>CR2</u>	<u>6/28/84</u>

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil	<u>Water Disposal</u>
Idle - Oil	<u>Water Flood</u>
Abandoned - Oil	<u>Steam Flood</u>
Drilling - Idle	<u>Fire Flood</u>
Abandoned - Dry Hole	<u>Air Injection</u>
Producing - Gas	<u>Gas Injection</u>
Idle - Gas	<u>CO2 Injection</u>
Abandoned - Gas	<u>LPG Injection</u>
Gas-Open to Oil Zone	<u>Observation</u>
Water Flood Source	
DATE <u>10/83</u>	
RECOMPLETED	
REMARKS	

- ENGINEER'S CHECK LIST**
- Summary, History, & Core record (dupl.)
  - Electric Log
  - Operator's Name
  - Signature
  - Well Designation
  - Location
  - Elevation
  - Notices
  - "T" Reports Held for W 80
  - Casing Record
  - Plugs
  - Surface Inspection Held
  - Production
  - Well on Prod. Dir. Sur. Null Rec

- CLERICAL CHECK LIST**
- Location change (F-OGDI65)
  - Elevation change (F-OGDI65)
  - Form OGD121
  - Form OGI59 (Final Letter)
  - Form OGD150b (Release of Bond)
  - Duplicate logs to archives
  - Notice of Records due (F-OGDI70)
- Held for production for status and W 80 (Oct 84) W 80*  
*Converted to WD*

**RECORDS NOT APPROVED**  
Reason: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**RECORDS APPROVED** SF  
**RELEASE BOND** \_\_\_\_\_  
Date Eligible \_\_\_\_\_  
(Use date last needed records were received.)  
**MAP AND MAP BOOK** \_\_\_\_\_

# WELL SUMMARY REPORT

1066

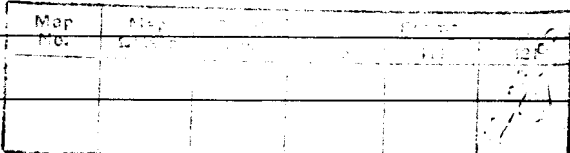
Operator Conoco Inc.		Well Bradley No. 4				
Field Cat Canyon		County Santa Barbara	Sec. 23	T. 9N	R. 33W	B.&M. SB
Location (Give surface location from property or section corner, street center line and/or California coordinates) 2000' FNL 2150' FEL 1687' 2130' FEL					Elevation of ground above sea level 777'	
Commenced drilling (date) 9-23-83	Total depth (1st hole) 4778' (2nd) (3rd)		Depth measurements taken from top of: <input type="checkbox"/> Derrick Floor <input type="checkbox"/> Rotary Table <input checked="" type="checkbox"/> Kelly Bushing Which is 10' feet above ground			
Completed drilling (date) 10-3-83	Present effective depth 4737'		GEOLOGICAL MARKERS			
Commenced producing (date)	Junk		DEPTH			
<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas lift	DIVISION OF OIL AND GAS RECEIVED DEC 2 1983		S/B Thomas 3200' 4646'			
Name of producing zone(s) Thomas	Formation and age at total depth Thomas Monterey					

	Clean Oil (bbl per day)	Gravity Clean Oil	Percent Water including emulsion	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	8 BOPD	15 <sup>0</sup>	8BWPD	--	--	--
Production After 30 days	7 BOPD	15 <sup>0</sup>	7BWPD			

CASING RECORD (Present Hole)								
Size of Casing (API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New or Second Hand	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)
8-5/8"	0'	504'	24#	K-55 ST & C	New		310 cft.	
5-1/2"	0'	4778'	17#	K-55 LT & C	New	7 7/8"	1010 cft.	

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

4-1/2" SPF 4646'-4694'

Was the well directionally drilled? If yes, show coordinates at total depth <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 29W 3735		
Electrical log depths		
Other surveys		

In compliance with Sec. 3215, Division 3 of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name J. R. Kemp	Title Division Manager of Production
Address 290 Maple Court Suite 128	City Ventura
Telephone Number (805) 642-8154	Zip Code 93003
Signature Basil D. Rose for J.R.K.	Date 12-12-83

18066

11

313-21500

\*\* DIRECTIONAL SURVEY PROGRAM \*\* PRODUCTION ENGINEERING SERVICES \*\* CONTINENTAL OIL COMPANY \*\*  
 \*\* USE OF THESE RESULTS IS LIMITED TO THOSE OPERATIONS IN WHICH CONTINENTAL OIL COMPANY HAS AN INTEREST \*\*

WELL NAME BRADLEY NO. 4  
 SURFACE LOCATION 1686.76'FNL & 2130.26'FEL OF SEC. 23  
 ELEVATION 786.54 FEET ABOVE SEA LEVEL  
 SURVEY NUMBER 9  
 TYPE OF SURVEY SINGLE SHOT

MEASUREMENTS FROM KELLY BUSHING

CORRECTED FOR MAGNETIC DECLINATION OF 14 DEG 30 MIN EAST  
 CALCULATIONS DONE WITHOUT CORRECTIONS FOR DRILLSTEM MAGNETISM  
 FLOPPY DISK FILE NAME IS DYO: [1,1]DIR20.DAT

DATE OF SURVEY 1983

CALCULATIONS BY RADIUS OF CURVATURE METHOD

COURSE LENGTH FT	MEASURED DEPTH FT	VERTICAL DEPTH FT	SUBSEA DEPTH FT	INCLINATION ANGLE DEG MIN		DIRECTION ANGLE DEG MIN		DIRECTION NORTH/SOUTH FT	COORDINATES EAST/WEST FT	DOGLEG SEVERITY DEG/100 FT
0	0	0	787	0	0	N 0	0 W	0 N	0 W	0.00
549	549	549	238	0	45	N 46	0 W	2 N	-3 W	0.14
310	859	859	-72	0	45	N 35	0 W	6 N	-5 W	0.05
311	1170	1170	-383	2	0	N 5	0 E	13 N	-7 W	0.62
313	1483	1483	-696	2	0	N 8	0 W	24 N	-7 W	0.14
312	1795	1795	-1008	1	15	N 1	0 W	32 N	-8 W	0.25
310	2105	2104	-1318	1	30	N 5	0 E	40 N	-8 W	0.09
119	2224	2223	-1437	0	15	S 15	0 E	40 N	-7 W	4.39
31	2255	2254	-1468	1	45	S 2	0 E	39 N	-6 W	5.09
61	2316	2315	-1529	3	30	S 5	0 E	37 N	-6 W	2.88
31	2347	2346	-1560	4	15	S 4	0 E	34 N	-6 W	2.43
63	2410	2409	-1622	6	30	S 4	0 E	29 N	-6 W	3.57
69	2479	2477	-1691	8	0	S 1	0 W	20 N	-5 W	2.37
156	2635	2632	-1845	8	0	S 1	0 W	-2 S	-6 W	0.00
124	2759	2755	-1968	8	15	S 4	0 W	-19 S	-7 W	0.40
312	3071	3063	-2277	8	45	S 2	0 W	-65 S	-9 W	0.19
156	3227	3217	-2431	9	15	S 2	0 W	-90 S	-10 W	0.32
155	3382	3370	-2584	9	30	S 3	0 W	-115 S	-11 W	0.19
310	3692	3675	-2889	10	45	S 3	0 W	-169 S	-14 W	0.40
155	3847	3828	-3041	11	15	S 4	0 W	-199 S	-16 W	0.35
124	3971	3949	-3163	11	45	S 4	0 W	-224 S	-17 W	0.40
156	4127	4102	-3315	12	15	S 4	0 W	-256 S	-20 W	0.32
157	4284	4255	-3468	13	0	S 5	0 W	-290 S	-22 W	0.50
91	4375	4344	-3557	12	0	S 5	0 W	-310 S	-24 W	1.10
212	4587	4552	-3765	10	30	S 4	0 W	-351 S	-27 W	0.71
126	4713	4676	-3889	10	0	S 3	0 W	-373 S	-29 W	0.42

HORIZONTAL DEPARTURE = 374 FEET AT SOUTH 4 DEG 24 MIN WEST

4646:  $\frac{59}{126} = 0.468$   
 126 124  
 126 124  
 4552 + 50 = 4602 TUD



Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
TD: 2356' PROG: 2306'  
9-24, 25, 26  
MIRU, spud 8:00 a.m. 9-23-83. Drl'd to 504', PO, ran 12 jts. 8-5/8",  
24", K-55, ST&C csg., shoe @ 504'. Cmt'd w/310 CFT Class "G", bump  
plg., WOC. Cut csg., weld on head. Drl'd out cmt., drln'g formation  
@ 2356'.

(Kenai 3-0-0)

Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
TD: 2791' PROG: 435'  
Drln'g @ 2791'. Svy. 2759' 8° 15' S-4-W MW 9.6.

(Kenai 4-0-0)

Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
TD: 3274' PROG: 483'  
Drln'g @ 3274'. Svy. 3227' 9° 15' S-02-W 9.2.

(Kenai 5-0-0)

Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
TD: 4039' PROG: 765'  
Drln'g @ 4039'. Svy. 3971' 11° 45' S-04-W MW 9.2.

(Kenai 6-0-0)

Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
TD: 4738' PROG: 699'  
Drill to 4738'. Circ. for log, RU ran GR-DIL 4725'-495'.

(Kenai 7-0-0)

Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
TD: 4778' PROG: 40'  
10-1, 2, 3  
Drl'd to 4778'. RU, ran 5 1/2" 15.5#, K-55 LT&C csg., shoe @ 4778'.  
Cmt. w/1010 CFT Class "G" w/12% gel, followed by 125 CFT Class "G",  
disp. w/brine. Rel. rig. RD move off.

(Kenai 9-0-0)

Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4778' PROG: 0'  
MI WO unit, RU, RIH w/4-3/4" bit & 5 1/2" scraper, tag TOC @ 4717'.  
Drill out cmt. 4717'-4737', POOH. RU, run CBL/CCL/GR 4734'-2700'.  
RD, install landing flange.

(Kenai 9-0-1)

Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4778' PROG: 0'  
Perforated well. RD, installing production equipment.

(Kenai 9-0-2)

DIVISION OF OIL AND GAS  
RECEIVED

DEC 2 - 1983

Santa Maria, California

4778  
4717

- 61'

1133

8 1/2

125  
- 8

117

5-77

675

4778  
675

4103

Top tail  
slurry

10/6/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%

Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W

Objective: 4700' Thomas Sd.

PBTD: 4778' PROG: 0'

RIH w/rods & tbg., pumping to clean up.

No test.

(Kenai 9-0-3)

10/7/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%

Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W

Objective: 4700' Thomas Sd.

PBTD: 4778' PROG: 0'

Pump testing. No test.

(Kenai 9-0-3)

10/10/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%

Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W

Objective: 4700' Thomas Sd.

PBTD: 4778' PROG: 0'

No test.

(Kenai 9-0-3)

10/11/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%

Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W

Objective: 4700' Thomas Sd.

PBTD: 4737' PROG: 0'

MIRU, RIH, Set 5 1/2" pkr. w/2 7/8" tail @ 4717'. Acidize well. RIH w/tbg., rods, & pump. Place well on prod. No test.

(Kenai 9-0-1)

10/12/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%

Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W

Objective: 4700' Thomas Sd.

PBTD: PROG:

Pumping for test. No test.

(Kenai 9-0-1)

10/13/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%

Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W

Objective: 4700' Thomas Sd.

PBTD: 4737' PROG: 0'

Test: 8 BOPD 8 BWPD

(Kenai 9-0-1)

10/14/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%

Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W

Objective: 4700' Thomas Sd.

PBTD: 4737' PROG: 0'

Recovering load wtr., no test.

(Kenai 9-0-1)

10/17/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%

Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W

Objective: 4700' Thomas Sd.

PBTD: 4737' PROG: 0'

Pumping for test. No test.

(Kenai 9-0-1)

DIVISION OF OIL AND GAS  
RECEIVED  
DEC 27 1983  
Santa Maria, California

10/8/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 21. EL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
MIRU, install shooting gate, RI perforate 4646'-4694', 8-SPF, POOH,  
RIH, wash perfs, PO, RU ran tbg. rods & pump. Well pumping for test.  
No test.

(Kenai 9-0-2)

10/19/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
Pumping load wtr., L.L. @ 1779'.

(Kenai 9-0-2)

10/20/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
Pumping for test. No test.

(Kenai 9-0-2)

10/20/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
Pumping for test. No test.

(Kenai 9-0-2)

10/24/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test. SI for BHP.

(Kenai 9-0-2)

10/25/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.

(Kenai 9-0-2)

10/26/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.

(Kenai 9-0-2)

10/27/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.

(Kenai 9-0-2)

10/28/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.

(Kenai 9-0-2)

DIVISION OF OIL AND GAS  
RECEIVED  
DEC 2 1983  
Santa Maria, California

10/3/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155  
Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.  
(Kenai 9-0-2)

11/1/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155  
Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.  
(Kenai 9-0-2)

11/2/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155  
Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.  
(Kenai 9-0-2)

11/3/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155  
Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.  
(Kenai 9-0-2)

11/4/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155  
Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.  
(Kenai 9-0-2)

11/7/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155  
Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test.  
(Kenai 9-0-2)

11/8/83  
Cat Canyon Field - Santa Barbara County, CA - Conoco 100%  
Bradley No. 4 - AFE 63-61-2155  
Location: 2000'FNL, 2150'FEL, Sec. 23, T9N, R33W  
Objective: 4700' Thomas Sd.  
PBSD: 4737' PROG: 0'  
No Test. Temporarily dropping from report.  
(Kenai 9-0-2)

DIVISION OF OIL AND GAS  
RECEIVED

DEC 27 1983

Alma Maria, California

12/9/83  
Cat Canyon - Thomas, Santa Barbara (Conoco Inc.) - 100%  
Bradley No. 4 - AFE 63-61-2155

Location: 2000' FNL, 2150' FEL, Sec. 23, T9N, R33W  
Spudded 9-23-83, Rig Rel. 10-3-83, Completed 10-18-83  
API No. 083-21852  
TD 4778', PBTD 4737', RBM 16', Elev: GL 777', RB 789'  
Thomas Sand Pumping - NEP 50'  
Perfs: 4646'-4694'  
Treatment: Acidize  
Initial Potential: On 10-14-83, Pumping  
Gravity: 15°  
Allowable: Max.  
Pipeline Connection: 11-9-83  
Formation Tops: S1B-3200' Thomas-4646'

FINAL REPORT

DIVISION OF OIL AND GAS  
RECEIVED  
DEC 27 1983  
Santa Maria, Colombia

## REPORT ON PROPOSED OPERATIONS

(805) 925-2686

--  
(field code)

--  
(area code)

--  
(new pool code)

--  
(old pool code)

John R. Kemp, Agent

Conoco, Inc.

290 Maple Court, Suite 128

Ventura, CA 93003

Santa Maria, California

October 5, 1983

Your supplementary proposal to drill well "Bradley" 4,  
A.P.I. No. 083-21852, Section 23, T. 9N, R. 33W, S.B. B. & M.,  
Cat Canyon field, -- area, -- pool,  
Santa Barbara County, dated 9-23-83, received 10-3-83 has been examined in conjunction with records  
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment conforming to Class IIA 2M requirements is installed on the 8 5/8" and 5 1/2" casings and maintained in operating condition at all times.

### NOTE:

1. In all other respects the well shall be drilled in accordance with the provisions set forth in our report No. P383-354 dated August 24, 1983.

AJK:dv  
BLANKET BOND

M. G. MEFFERD, State Oil and Gas Supervisor

By

*S. P. Henderson*  
Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. S

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
**DIVISION OF OIL AND GAS**  
SUPPLEMENTARY NOTICE

DIVISION OF OIL AND GAS  
RECEIVED  
OCT 3 1983

FOR DIVISION USE ONLY		
BOND	FORMS	
	114	121
Blanket		10-383

DIVISION OF OIL AND GAS

Santa Maria Calif.

A notice to you dated August 11 19 83, stating the intention to  
Drill (Drill, rework, abandon), Well No. Bradley No. 54 9-30-83, API No. 083-21852,  
Sec. 23, T. 9N, R. 33W, SB B. & M., Cat Canyon Field,  
Santa Barbara County, should be amended because of changed conditions.

The present condition of the well is as follows:

Total depth 4700' (proposed) ✓

Complete casing record including plugs and perforations:

Originally Proposed

10-3/4", 40.5#, K-55 set at 500' ✓  
7-5/8", 26.4#, K-55 set at 4700' ✓  
TD = 4700'

We now propose

8-5/8", 24#, K-55 set at 500' (Hole = 12-1/4", cement volume behind casing = 200 cu.ft.) ✓  
5-1/2", 15.5#, K-55 set at 4700' (Hole = 7-7/8", cement volume behind casing = 835 cu.ft.) ✓

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 290 Maple Court, Suite 128  
(Street)  
Ventura, CA 93003  
(City) (State) (Zip)  
Telephone Number (805) 642-8154

Conoco Inc.  
(Name of Operator)  
By [Signature] 9/3/83  
(Name) (Date)  
Type of Organization Corporation  
(Corporation, Partnership, Individual, etc.)

## REPORT ON PROPOSED OPERATIONS

128  
(field code)  
15  
(area code)  
00  
(new pool code)

John R. Kemp III, Agent  
CONOCO Inc.  
290 Maple Court, Suite 128  
Ventura, CA 93003

(old pool code)

Santa Maria, California  
August 24, 1983

Your \_\_\_\_\_ proposal to drill well "Bradley" 4,  
A.P.I. No. 083-21852, Section 23, T. 9N, R. 33W, S.B. B. & M.,  
Cat Canyon field, Sisquoc area, -- pool,  
Santa Barbara County, dated 8-11-83, received 8-17-83 has been examined in conjunction with records  
filed in this office.

### THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Drilling fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts is used.
2. Blowout prevention equipment conforming to Class IIA 2M requirements is installed on the 10 3/4" and 7 5/8" casings and maintained in operating condition at all times.

NOTE: The division will monitor the monthly production of this well for a period of six months, and if anomalous water production is indicated, remedial action will be ordered.

Blanket Bond  
AJK:mjn

SIMON CORDOVA, Acting  
~~XXXXXXXXXX~~ State Oil and Gas Supervisor

By [Signature]  
Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.  
Records for work done under this permit are due within 60 days after the work has been completed  
or the operations have been suspended.



**DIVISION OF OIL AND GAS**  
**Notice of Intention to Drill New Well**

**Confidential Well** AUG 17 1983

*Santa Maria, California*

C.E.Q.A. INFORMATION			
EXEMPT <input type="checkbox"/>	NEG. DEC. <input type="checkbox"/>	E.I.R. <input type="checkbox"/>	DOCUMENT NOT REQUIRED BY LOCAL JURISDICTION <input checked="" type="checkbox"/>
CLASS _____	S.C.H. NO. _____	S.C.H. NO. _____	
See Reverse Side			

FOR DIVISION USE ONLY				
MAP	MAP BOOK	CARDS	BOND	FORMS
				114 121
310	8-19-83	✓	Blanket	8-22-83

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well "Bradley" # 4, API No. 083-21852  
(Assigned by Division)  
Sec. 23, T. 9N, R. 33W, S.B.B. & M., Cat Canyon Field, Santa Barbara County.

Legal description of mineral-right lease, consisting of \_\_\_\_\_ acres, is as follows: \_\_\_\_\_  
(Attach map or plat to scale)

*See plat*

Do mineral and surface leases coincide? Yes \_\_\_\_\_ No \_\_\_\_\_ If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of well 1687 feet South along section/property line and 2130 feet West  
(Direction) (Cross out one) (Direction)

at right angles to said line from the NE corner of section/property \_\_\_\_\_ or  
(Cross out one)  
2000 FNL & 2150 FEL of Section 23

Is this a critical well according to the definition on the reverse side of this form? Yes ☐ No ☒

If well is to be directionally drilled, show proposed coordinates (from surface location) at total depth:  
\_\_\_\_\_ feet \_\_\_\_\_ and \_\_\_\_\_ feet \_\_\_\_\_  
(Direction) (Direction)

Elevation of ground above sea level 660 ± feet.

All depth measurements taken from top of Kelly Bushing that is 13 feet above ground.  
(Derrick Floor, Rotary Table, or Kelly Bushing)

**PROPOSED CASING PROGRAM** *K E 672*

SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING
10-3/4"	40.5#	K-55/ST&C	0	500	0'-500'	280 cu/ft
7-5/8"	26.4#	K-55/LT&C	0	4700	0'-4700'	1000 cu/ft

(A complete drilling program is preferred and may be submitted in lieu of the above program.)

Intended zone(s) of completion Thomas Sand, 4500', 1800 psi Estimated total depth 4700'  
(Name, depth, and expected pressure)

It is understood that if changes in this plan become necessary we are to notify you immediately.

Name of Operator <u>Conoco Inc.</u>		Type of Organization (Corporation, Partnership, Individual, etc.) <u>Corporation</u>	
Address <u>290 Maple Court, Suite 128</u>		City <u>Ventura, California</u>	Zip Code <u>93003</u>
Telephone Number <u>(805) 642-8154</u>	Name of Person Filing Notice <u>John R. Kemp</u>	Signature <i>John R. Kemp</i>	Date <u>8-11-83</u>

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

INTERIOR  
EY

( SCALE 1" = 2000' )

STATE OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCE

DIVISION OF OIL AND GAS  
(TWITCHELL & PETERSON)  
SANTA M. GAREY I

AUG 17 1983

San Mateo, California

